




**Independent Environmental Audit
'Possum Brush' Quarry**

October 2016

**trevor brown & associates
applied environmental management consultants**

Report ID: PBM/June2017/Rev2

Independent Audit Certification Form	
Development Name	Possum Brush Quarry
Development Consent No.	Consolidated Development Consent 283/97 MOD 4
Description of Development	Hard rock quarry
Development Address	113/115 Possum Brush Road Possum Brush NSW 2430
Operator	Pacific Blue Metal Pty Ltd
Operator Address	113/115 Possum Brush Road Possum Brush NSW 2430
Independent Audit	
Title of Audit	Possum Brush Quarry – Independent Environmental Audit - October 2016
<p><i>I certify that I have undertaken the independent audit and prepared the contents of the attached independent audit report and to the best of my knowledge:</i></p> <ul style="list-style-type: none"> <i>• The audit has been undertaken in accordance with relevant approval condition(s) and in accordance with the auditing standard AS/NZS ISO 19011:2014 and Post Approval Guidelines – Independent Audits</i> <i>• The findings of the audit are reported truthfully, accurately and completely;</i> <i>• I have exercised due diligence and professional judgement in conducting the audit;</i> <i>• I have acted professionally, in an unbiased manner and did not allow undue influence to limit or over-ride objectivity in conducting the audit;</i> <i>• I am not related to any owner or operator of the development as an employer, business partner, employee, sharing a common employer, having a contractual arrangement outside the audit, spouse, partner, sibling, parent, or child;</i> <i>• I do not have any pecuniary interest in the audited development, including where there is a reasonable likelihood or expectation of financial gain or loss to me or to a person to whom I am closely related (i.e. immediate family);</i> <i>• Neither I nor my employer have provided consultancy services for the audited development that were subject to this audit except as otherwise declared to the lead regulator prior to the audit; and</i> <i>• I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from fair payment) from any owner or operator of the development, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so. Note. a) The Independent Audit is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000. b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2years imprisonment or \$22,000, or both).</i> 	
Signature	
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Date:	10 November 2016

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by

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136 Sanctuary Point Road, Sanctuary Point NSW 2540



10 November 2016

Trevor Brown

Principal Environmental Management Consultant/Auditor

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Glossary and Abbreviations

AHD	Australian Height Datum
Annual review	The review required by condition 9 of Schedule 5
Asphalt activities	As approved under DA 1127/2005
BCA	Building Code of Australia
CCC	Community Consultative Committee
Condition of consent	Conditions contained in Schedule 2 to 5 inclusive
Council	MidCoast Council (previously Greater Taree City Council)
Department	Department of Planning and Environment
DRE	Division of Resources and Energy, within the NSW Department of Industry
DPI	Water Department of Primary Industries Water
EA	Environmental Assessment
EA (Mod 1)	Development Application 283/97 lodged with Greater Taree City Council on 12 Sep 1997, and accompanying Environmental Impact Statement prepared by ERM Mitchell McCotter, dated Sep 1997
EA (Mod 2)	Modification Application MOD 2 105-8-2006, dated 15 August 2006
EA (Mod 3)	Modification Application DA 283/97 MOD 3 and accompanying Environmental Assessment titled <i>Environmental Assessment for an Additional Minor Area of Extraction at the Possum Brush Quarry</i> , prepared by R W Corkery and Co Pty Limited, dated November 2012
EA (Mod 4)	Modification Application DA 283/97 MOD 4 and <i>Environmental Assessment for the Stage 2 Operations and the Modification of Development Consent DA 283/97 at the Possum Brush Quarry, via Nabiac</i> , dated November 2015, and <i>Response to Submissions for the Stage 2 Operations and the Modification of Development Consent DA 283/97 at the Possum Brush Quarry, via Nabiac</i> , dated February 2016.
EPA	Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPL	Environment Protection Licence 3393 issued under the POEO Act
INP	<i>NSW Industrial Noise Policy (NSW EPA, 2000)</i>
Material harm to the environment	Actual or potential harm to human beings or the environment
Minister	Minister for Planning, or delegate
OEH	Office of Environment and Heritage
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Public infrastructure	Linear and related infrastructure that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc.
Quarrying operations	The extraction, processing and transportation of extractive materials on the site and the associated removal of vegetation, topsoil and overburden.
Quarry products	Includes extractive material, aggregates, road pavement products, asphalt products, recycled products and all other saleable products despatched from the site
Recycling activities	As approved under DA 769/2009
Rehabilitation	The restoration of land disturbed by the development to a good condition, ensuring it is safe, stable, non-polluting environment and appropriately vegetated.
RMS	Roads and Maritime Services
Secretary	Secretary of the Department, or nominee
Site	Includes Lot 109 DP 753195, Lot 3 DP 701903 and Lot 66 DP 608957

Executive Summary

An Independent Environmental Audit of the Pacific Blue Metal Pty Ltd 'Possum Brush' Quarry Project was conducted in October 2016 to satisfy the requirement of Consolidated Development Consent 283/97 Modification 4, Schedule 5 condition 10.

The 'Possum Brush' Quarry activities were assessed during the Independent Environmental Audit as operating generally in compliance with the consolidated conditions of the Development Consent 283/97 Modification 4. The scope of work for the independent environmental audit of the 'Possum Brush' Quarry was to assess the status of the Possum Brush Quarry operations at the date of the audit (October 2016) against the Consolidated Development Consent 283/97 MOD 4 conditions issued on 1 April 2016 (i.e. 6 months following the issue of the Consolidated Development Consent 283/97 MOD 4 conditions).

A summary of the conclusions of the audit findings are presented below:

Environmental Management Strategy **Status** **Compliant**

The Environmental Management Strategy prepared for the "Possum Brush" Quarry development provides a sound basis for the management of the environmental matters related to the operations and activities conducted for the project. The current Certification to ISO 14001 provides additional environmental management elements to minimise potential for environmental harm from the operation of the project.

Management Plans **Status** **Awaiting response from DP&E re approval**

The Environmental Management Plans required to satisfy Consolidated Development Consent 283/97 Modification 4 conditions have been prepared and submitted to the Department of Planning and Environment for approval 1 August 2016. Comments were received by Pacific Blue Metal from DP&E on 12 September 2016. The draft Management Plans were revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting a response in relation to approval at the date of this audit.

Annual Review **Status** **Compliant Ongoing**

The Annual Review Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 9 was prepared for the "Possum Brush" Quarry reviewing the environmental performance of the development between 1 July 2015 and 30 June 2016. The Annual Review was generally consistent with the requirements of Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 9 and any trends or comparative assessments of data or targets to address the requirements of the new condition will be included in subsequent Annual Reviews.

Environmental Monitoring Program **Status:** **Compliant Ongoing**

The Environmental Monitoring Programs included in the various Environmental Management Plans for the "Possum Brush" Quarry include meteorological monitoring, surface water quality monitoring of any discharge from Dam 3 to the environment, and noise monitoring required under in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 1 to 3. The installation of dust deposition gauges and a meteorological monitoring station on site was being progressed at the date of this audit and are planned for installation by Q1 2017.

Noise **Status** **Compliant Ongoing**

Noise mitigation measures implemented for the "Possum Brush" Quarry operations are considered to be effective in controlling noise from all on-site activities. A key factor in the reduction of noise emissions from the quarry activities, is the topography surrounding the development and barriers created by the quarry extraction faces. The noise monitoring of the quarry operations at the nominated receivers, demonstrated

Landscape and Rehabilitation

Status

Ongoing

Rehabilitation of the Possum Brush Quarry site will occur when extraction is complete in the Extraction Areas approved under the Consolidated Development Consent 283/97 MOD 4. Progressive rehabilitation of completed benches above the Extraction Area A sump has occurred providing a stable well vegetated batters.

Traffic Management

Status

Compliant Ongoing

The draft Transport Management Plan was revised to address the DP&E comments and submitted to DP&E on 6 October 2016. Traffic management was occurring in accordance with the draft Transport Management Plan at the date of this audit. The Traffic Management Plan will be fully implemented when approved by DP&E.

Visual Amenity

Status

Compliant Ongoing

The topography, dense vegetated slopes and visual controls implemented for the 'Possum Brush' Quarry development have reduced the visibility of the quarry operations from residences in the area of the quarry. The establishment of areas of native vegetation to enhance the visual amenity of the largely cleared existing paddocks of the 'Possum Brush' property is also reducing the potential for any impact on the visual amenity of the surrounding area.

Waste Management

Status

Compliant Ongoing

Waste generated by the activities on the "Possum Brush" Quarry site is managed to minimise the quantity of waste generated on site; maximise the quantity of waste recycled from site activities; and manage waste from the Quarry activities and have the waste collected and removed by licenced waste contractor(s) to approved licenced waste facilities.

Pacific Blue Metal imported small quantities of concrete for reprocessing and blending with other quarry products in accordance with Development Consent 769/2009 granted by the Greater Taree Council on 16 July 2009. A total of 765.36 tonnes was imported until 30 June 2016 with a total of 678.04 tonnes of recycled materials processed and despatched.

1. Introduction

1.1 Background

The Development Consent 283/97 was granted to Pacific Blue Metal Pty Ltd (Pacific Blue Metal) by the Minister for Planning on 25 May 1998, and Modification 4 (MOD 4) granted on 1 April 2016 for expansion of the existing hard rock quarry at Possum Brush NSW. MOD 4 provided for construction and operation of Stage 2 of the Possum Brush Quarry project, that would allow an additional 30 years of extractive operations; increase of annual quarry production from an average of 200,000 to a maximum of 500,000 tonnes per annum; and increase the depth of extraction from 90 m Australian Height Datum (AHD) to 45 m AHD.

This Independent Environmental Audit was commissioned by Pacific Blue Metal and conducted by Trevor Brown of Trevor Brown & Associates to satisfy the requirements of Consolidated Development Consent 283/97, MOD 4, Schedule 5 condition 10:

INDEPENDENT ENVIRONMENTAL AUDIT

“By 30 September 2016, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must: (a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL and/or Water License (including any assessment, plan or program required under these approvals); (d) review the adequacy of any approved strategy, plan or program required under these approvals; and (e) recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under these approvals.”

The Independent Environmental Audit was commissioned on 30 September 2016 and the site inspection and documentation assessment for compliance with Consolidated Development Consent 283/97 MOD 4 and other environmental approvals for the 'Possum Brush' Quarry, was carried out during October 2016 by Trevor Brown (the Independent Environmental Auditor endorsed by the Secretary of the Department of Planning and Environment on 9 September 2016).

1.2 Scope of Work

The Independent Environmental Audit was conducted generally in accordance with the Australian/New Zealand Standards ISO 19011:2002 – *Guidelines for Quality and/or Environmental Systems Auditing* and the *Independent Audits Guideline*, DP&E October 2015. The scope of work for the independent environmental audit of the 'Possum Brush' Quarry was to assess the status of the Possum Brush Quarry operations at the date of the audit (October 2016) against the Consolidated Development Consent 283/97 MOD 4 conditions issued on 1 April 2016 (i.e. 6 months following the issue of the Consolidated Development Consent 283/97 MOD 4 conditions) and included:

- review of compliance with Consolidated Development Consent 283/97 MOD 4 conditions and other environmental approvals for the project;
- site inspection and review of on-site documentation and monitoring data for the project, relevant to the audit;
- discussion of the development consent and other approval conditions and operation of the project with 'Possum Brush' Quarry personnel;

- assessment of environmental performance of the Possum Brush Quarry with the requirements in the Consolidated Development Consent 283/97 MOD 4, and Environment Protection Licence 3393 conditions (including environmental assessments, plans or programs required under the approvals);
- review of the adequacy of strategies, plans or programs prepared under the abovementioned consents/approval;
- provision of recommendations if considered necessary for implementation of measures or actions to improve environmental performance of the development; and
- preparation of the Independent Environmental Audit Report providing assessment of compliance of the Possum Brush Quarry development and operation against each approval condition. Provision of comments, recommendations or actions have been included where considered appropriate to improve the environmental performance of the development, and/or the environmental management and monitoring systems

1.3 Structure of the Report

The Independent Environmental Audit Report has been prepared to provide comment on each condition of approval in a tabulated form, with additional discussion/comment where required on specific matters provided in the main text of the Report. The tabulated comments on the conditions of approval are presented in the Attachments to this Independent Environmental Audit Report.

The Independent Environmental Audit Report sections are:

Glossary and Abbreviations	
Executive Summary	
Section 1	Introduction
Section 2	'Possum Brush' Quarry Project
Section 3	Environmental Approvals and Licenses
Section 4	'Possum Brush' Quarry Status – October 2016
Section 5	Review of Environmental Management
Section 6	Conclusions
Attachment A	Consolidated Development Consent 283/97
Attachment B	Development Consent 1127/2005
Attachment C	Development Consent 769/2009
Attachment D	Environment Protection Licence No. 3393

1.4 Compliance Tables

This audit assessed the activities of the Possum Brush Quarry for compliance with the intent of the conditions of the Consolidated Development Consent 283/97 and Environment Protection Licence 3393 via site inspections, document review and verification of relevant documentation related to the conditions of approval. The compliance status of each condition is expressed in the Attachments to this report as:

Assessment Status	Criteria Description
Compliant	Where verifiable evidence has been collected to demonstrate that the intent of the elements of the conditions of the regulatory approval and appropriateness of implementation against the Consolidated Development Consent 283/97 has occurred.
Compliant Ongoing	The intent and specific requirements of the condition have been met and the requirements are an ongoing requirement for the operation of Possum Brush Quarry project.

Assessment Status	Criteria Description
Administrative Non-compliance	A technical non-compliance with a regulatory approval that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date, failed monitor or late monitoring session). This would not apply to performance-related aspects (e.g. exceedance of a noise limit) or where a requirement had not been met at all (e.g. noise management plan not prepared and submitted for approval) A technical non-conformance with a condition of approval that would not result in any risk or material harm to the environment (e.g. the submission of a report to government later than required under the approval conditions).
Non-compliance	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit the risk level of the non-compliance will be assessed in accordance with the Independent Audit Guideline section 4.1 (DP&E October 2015):
Non-Compliant – Low Risk	Non-compliance with a condition of approval with the potential for moderate environmental consequences, but is unlikely to occur, or, potential for low environmental consequence but is likely to occur.
Non-Compliant – Moderate Risk	Non-compliance with a condition of approval with the potential for serious environmental consequences but unlikely to occur, or, potential for moderate environmental consequence but likely to occur.
Non-Compliant – High Risk	Non-compliance of a condition of approval with the potential for significant environmental consequences, regardless of the likelihood of occurrence.
Not verified	Where the auditor has not been able to collect sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit.
Not active / Not triggered	A regulatory approval requirement / condition has an activation or timing that had not been triggered at the date of the audit, therefore a determination of compliance could not be made.
Noted	A statement or fact where no assessment of compliance is required.

Any Non-compliance (if identified) will be subject to a risk assessment in accordance with the *Independent Audit Guideline* (DP&E October 2015) section 4.1 and reported in section 5 Conclusions of this Independent Environmental Audit Report.

1.5 Limitations of the Audit

The auditor received complete cooperation from Pacific Blue Metal personnel during the audit. Documentation that was not immediately available during the audit site visit / inspection and document review, was provided to the auditor subsequent to the site visit.

The findings of the audit are based upon visual observations on the site, interviews with site personnel and interpretation of records provided by Pacific Blue Metal. Opinions presented within the audit apply to the site as observed at the date of the audit inspection and from information provided by Pacific Blue Metal personnel. Any additions to the information available at the date of this audit (October 2016) or changes to this information of which the Trevor Brown & Associates is not aware and has not had the opportunity to evaluate, have not therefore been considered in this report. The auditor has taken due care to consider all reasonably available information provided during the audit and has taken this information to represent a fair and reasonable characterisation of the environmental status of the site.

2. 'Possum Brush' Quarry Project

2.1 Project Description

Pacific Blue Metal owns freehold the land on which the Possum Brush Quarry is located and surrounding property of Lot 109 DP 753195, Lot 3 DP 701903 and Lot 66 DP 608957, on Possum Brush Road, Possum Brush, NSW, located approximately 5 km north-east of Nabriac and 20 km south of Taree in the MidCoast Local Government Area (previously the Greater Taree LGA).

Possum Brush Quarry provides products from the greywacke within the Quarry Site for both road base and aggregate products for the construction industry and the upgrading of roads (including the Pacific Highway).

The 'Possum Brush' Quarry Site is surrounded by landholdings owned by Pacific Blue Metal with heavily vegetated steep hills reducing the potential for the quarry operations to be visible from surrounding properties or residences (refer to Figure 2.1). The 'Possum Brush Quarry Site straddles part of a broad east-southeast trending ridge system that forms a watershed for a number of local creeks.



Figure 2.1: Aerial Photograph of Possum Brush Quarry

3. Environmental Approvals and Licenses

3.1 Project Approval

A Development Application was lodged with Greater Taree City Council on 12 September 1997 by Pacific Blue Metal Pty Ltd, accompanied by an Environmental Impact Statement prepared by ERM Mitchel McCotter (dated September 1997) to develop and operate the hard rock quarry at Possum Brush NSW within the Greater Taree City Council Local Government Area. The Development Application was assessed under the *Environmental Planning and Assessment Act 1979* sections 89, 91AB and 101(8) and Development Consent 283/97 was granted to Pacific Blue Metal, by the Minister for Planning on 25 May 1998 following a Commission of Inquiry. The quarry has operated under a Ministerial Development Consent (DA 283/97) since 1998.

The activities approved for the "Possum Brush" Quarry under Development Consent DA 283/97 comprise:

- Extraction operations within the two defined Extraction Areas A and B;
- Crushing and screening operations within a fixed plant and blending operations with a pug-mill / wet-mix plant;
- Product stockpiling and despatch using Pacific Blue Metal-owned trucks and subcontractors;
- Quarry administration, workforce amenities and quarry infrastructure; and
- Progressive rehabilitation of sections of the "Possum Brush" Quarry no longer required for operations.

The following Modifications to Development Consent 283/97 have been granted:

Modification Lodged	Modification	Modification Approved
June 2002	To modify the development consent for the upgrade and rehabilitation Possum Brush Road and change the completion date of the road upgrade works (required to be completed within 15 months of the consent date). The Greater Taree Council supported the application.	4 February 2003
MOD 2 Part 4 Modification 29 August 2006	To modify Condition 36 of the development consent to: <ul style="list-style-type: none"> • require the road maintenance contribution payable by Pacific Blue Metal to Greater Taree Council to be payable 10 years after the date of the original consent rather than 5 years; and • change the rate of the contribution from 5 cents per tonne to 7.5 cents/tonne for 5 years, then 10 cents/tonne for the next 5 years, and increasing by 5 cents/tonne for each subsequent 5 year period. The modified condition 36 is consistent with an agreement made between the Applicant and Greater Taree Council over the future maintenance of Possum Brush Road.	15 December 2006
MOD 3 Part 3A Modification	A minor extension to approved Extraction Area B for extraction of approximately 30,000 tonnes of weathered greywacke rock in an area of 1,120 m ² , to create an access road immediately south of the quarry's workshops to separate traffic in and around the workshop, weighbridge and processing area.	12 December 2012
MOD 4 Part 3A Modification	MOD 4 includes constructing and operation of Stage 2 of the quarry, to allow an additional 30 years of extractive operations, increasing annual quarry production from an average of 200,000tpa to a maximum of 500,000 tpa; and increasing the depth of extraction from 90 m AHD to 45 m AHD.	1 April 2016

In addition to the above quarry activities, Pacific Blue Metal has approval to:

- manufacture a range of asphalt products under Development Consent 1127/2005 granted by the Greater Taree City Council on 25 July 2005, with an annual throughput of up to 30 000 tonnes. (The asphalt plant activities at the Possum Brush Quarry site are listed as an Ancillary Activity in EPL 3393 condition A3); and
- import, process and blend up to 10 000t of waste materials (concrete, bricks, tiles and asphalt) with other quarry products at the "Possum Brush" Quarry under Development Consent 769/2009 granted by the Greater Taree Council on 16 July 2014. (The recycling activities at the Possum Brush Quarry site are listed as Schedule and Fee Based Activities in EPL 3393 condition A1.1).

Review of compliance with Consolidated Development Consent 283/97 MOD 4, Development Consent 1127/2005, and Development Consent 769/2009 conditions of approval is provided in Attachments A to C and comments on the environmental aspects, environmental management and monitoring are provided in this Independent Environmental Audit Report section 5.

3.2 Environment Protection Licence

Environmental Protection Licence (EPL) 3393 was issued to Pacific Blue Metal under the *Protection of the Environment Operations Act 1997* section 55 by the Environment Protection Authority, with an anniversary date of 17 August. No Variations to the EPL had occurred between November 2013 and October 2015.

The EPL 3393 was issued for:

Scheduled Activity	Fee Based Activity	Scale
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity
Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store
Resource recovery	Recovery of general waste	Any general waste recovered
Waste storage	Waste storage - other types of waste	Any other types of waste stored
Bitumen mixing		Up to 30,000 tonnes

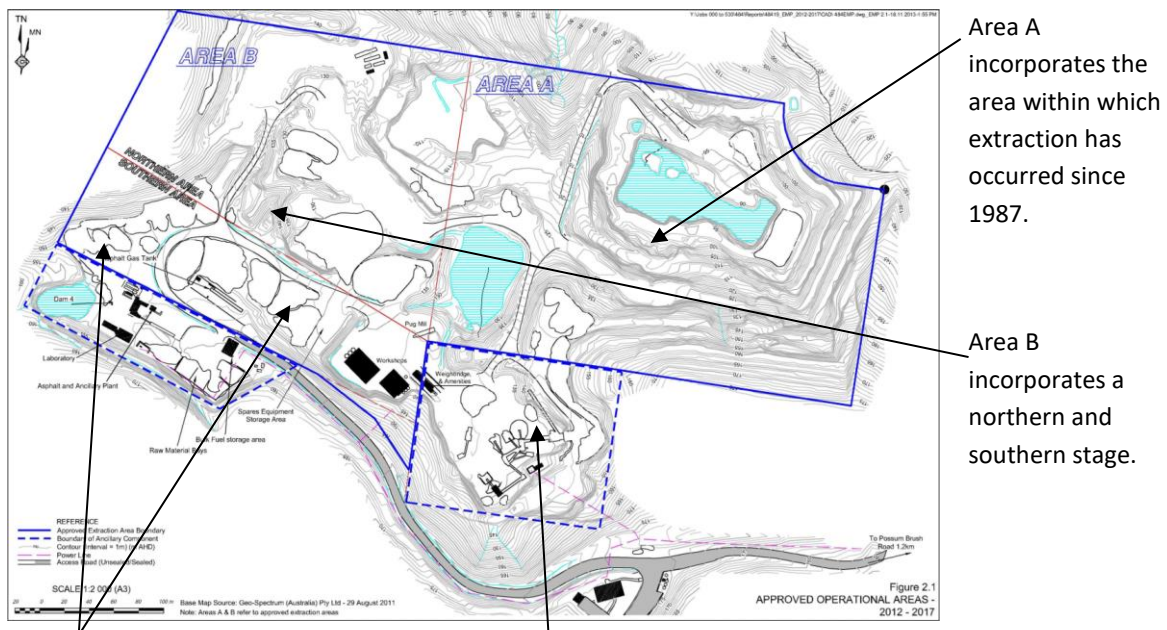
Review of compliance with the conditions of Environment Protection Licence 3393 is provide in Attachment D.

4. 'Possum Brush' Quarry Status – October 2016

4.1 Quarry Extraction Areas

The development of the 'Possum Brush' Quarry to October 2016 included Extraction Areas A and B, processing plant area for extraction material, product stockpile areas, maintenance workshops for on-site mobile equipment, asphalt plant and LPG storage, and areas for recycling waste (located in Area A at the date of this audit).

The approved operational areas within the Possum Brush Quarry (refer to Figure 4.1 below) are shown with Extraction Areas A and B, process plant and stockpile areas, and the area for the production of asphalt.



Area A incorporates the area within which extraction has occurred since 1987.

Area B incorporates a northern and southern stage.

Product stockpile area south of Area B.

Processing Plant Area where all rock is processed from Extraction Areas A and B.

Figure 4.1: Possum Brush Quarry Layout Approved under Consolidated Development Consent 283/97

The extraction and sequencing of the "Possum Brush" Quarry is generally in accordance with the original Environmental Assessment 1998 plans with only minor changes, that have included the extraction of additional materials in Area B, occurring as the result of specific product specifications and client requests. The main features of the ongoing quarry design are:

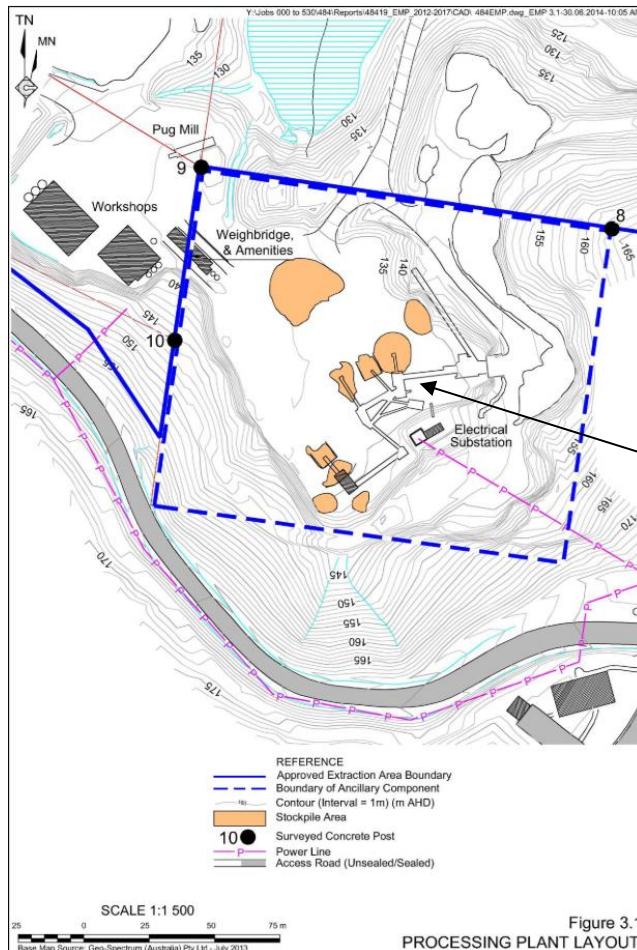
- Bench heights vary from 10m to 15m depending on stability of the surfaces.
- Bench widths will vary from greater than 10m for active benches to 5m for final benches.
- Intermediate and final quarry faces will be set at approximately 80°. A system of barriers comprising either in situ rock or oversize rock will be maintained around the periphery of operational quarry faces adjacent to access roads.

All broken rock is transported to the processing plant using trucks on the internal road network. The rock is processed to produce the various grades of finished product required for customer needs.

All haul roads are generally 12m wide with a grade desirably less than 1:8 (V:H). All roads are constructed with roadside drainage to ensure all sediment-laden runoff is directed either to quarry sumps or a settlement dam. The haul road network is regularly watered using the on-site 22,000 litre water cart.

4.2 Processing Operations

The processing plant is situated in a protected area south of Extraction Area A. From time to time this layout is supplemented by portable items of equipment (e.g. a pug mill for use in preparing specific blended products). The surrounding topography contributes significantly to the attenuation of noise and dust emission from the plant.



The processing plant is fed either directly from trucks unloading into the reciprocating plate feeder or a front-end loader recovering broken rock from a surge stockpile adjacent to the feeder. Water sprays are fitted to the plant to suppress dust.



The main products produced at the Possum Brush Quarry are:

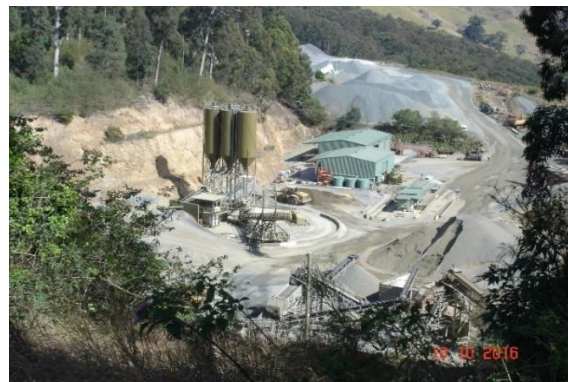
- 7mm, 10mm, 14mm and 20mm aggregate;
- prepared road-base;
- <5mm "dust";
- scalps.
- Ballast;
- a range of oversize products for gabions, retaining walls and sea walls.

Figure 4.2: Quarry product Processing Plant area – Possum Brush Quarry

4.3 Stockpiling Operations

Cone stockpiles beneath each product conveyor at the processing plant collectively provide storage for approximately 4 000 tonnes of products. PBM maintains a supplementary stockpile area principally within Area B within and adjacent to the site access road.

The principal stockpile area is well protected by surrounding topography and vegetation from winds capable of causing dust lift-off from product stockpiles, particularly <5mm products.



The principal stockpile area protected by surrounding topography and vegetation from winds capable of generating dust generation.

4.4 Fuel and Oil Management

The diesel fuel storage area is adjacent to the site access road near the Maintenance Workshop and the stockpile area. The diesel fuel storage area comprises three above-ground tanks (1 x 55 000 litres and 2 x 15 000 litre).

The aboveground tank bunded storage has a capacity of 61,826 litres area (i.e. greater than 110 % of the total storage volume of the largest vessel – 55,000 litres), in accordance with AS1940-2004).

A 5 000 litre mobile tanker is used to supply fuel to the stationary and tracked equipment on site.



Aboveground Storage Tanks within bunding compliant with AS 1940.

5. Environmental Management

5.1 Environmental Management Strategy

[Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 1]

The Environmental Management Strategy for the "Possum Brush" Quarry was prepared to satisfy the requirements of Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 1.

The objectives of the Environmental Management Strategy are to:

- provide an overall framework for the environmental management at the "Possum Brush" Quarry and transport operations; and
- ensure the operations of the quarry are managed in accordance with:
 - conditions associated with Consolidated Development Consent 283/97 MOD 4;
 - Environment Protection Licence (EPL) 3393;
 - Commitments made within the Environmental Management Plans prepared for Possum Brush Quarry Consolidated Development Consent 283/97 MOD 4 conditions.

Pacific Blue Metal also have current ISO 14001 Certification issued by Quality Control Services (Environmental Management) Pty Ltd.

Table 5.1 Environmental Management Strategy vs AS/NZS ISO14001 Elements

ISO 14001 Element	Environmental Management Strategy section
4.2 Environmental Policy	Pacific Blue Metal Policy Environmental Management Policy
4.3.1 Environmental Aspects	Section 2.0 - Overview of the Possum Brush Quarry
4.3.2 Legal and Other Requirements	Section 4.0 - Statutory Requirements
4.3.3 Objectives and Targets	Section 5 - Objectives of the Strategy
4.3.4 Environmental Management Programs	Section 2.1 - Environmental Management & Performance Criteria
4.4.1 Structure and Responsibility	Section 15 - Personnel and Roles
4.4.2 Training Awareness and Competence	Section 13 - Training
4.4.3 Communication	Section 12 - Communication and Consultation
4.4.7 -Emergency Preparedness and Response	Section 11 - Emergency Response
4.5.1 Monitoring and Measurement	Section 6 6 - Monitoring
4.5.2 Non-conformance, Corrective Action	Section 8 - Non-Compliance

5.1.1 Conclusion

Environmental Management Strategy **Status:** **Compliant**

The Environmental Management Strategy prepared for the "Possum Brush" Quarry development provides a sound basis for the management of the environmental matters related to the operations and activities conducted for the project. The current Certification to ISO 14001 provides additional environmental management elements to minimise potential for environmental harm from the operation of the project.

5.2 Management Plans

[Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 2]

Management Plans required under Consolidated Development Consent 283/97 MOD 4 have been prepared to satisfy the requirements of each specific condition of approval related to the environmental aspects and were submitted to DP&E on 1 August 2016. Comments were received by Pacific Blue Metal from DP&E on 12 September 2016. The draft Management Plans were revised to address the DP&E comments and resubmitted on 6 October 2016:

Development Consent 283/97	Management Plan	Abbreviation
Schedule 3 condition 3	Noise Management Plan	NMP
Schedule 3 condition 8	Blasting Management Plan	BMP
Schedule 3 condition 12	Air Quality Management Plan	AQMP
Schedule 3 condition 18	Water Management Plan	WMP
Schedule 3 condition 21	Landscape and Rehabilitation Management Plan	LRMP
Schedule 3 condition 28	Transport Management Plan	TMP

The Management Plans also include the relevant general requirements of Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 2:

Development Consent 283/97 MOD 4 Schedule 5 condition 2	Management Plan Section	Status
(a) detailed baseline data;	NMP - section 3 BMP -section 4 AQMP – section 11.2 WMP – section 5 LRMP – section 9 TMP – section 3	Compliant
(b) a description of: <ul style="list-style-type: none"> the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures/criteria; and the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; 	NMP – section 5 BMP – section 5 and 6 AQMP – section 4 and 5 WMP – section 4 LRMP – sections 4 and 5 TMP – sections 5 and 6	Compliant
(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria	NMP – section 5 and 10 BMP -section 5 and 10 AQMP – section 10 WMP – sections 9 and 10 LRMP – section 9, 10 and 11 TMP - -section 9	Compliant
(d) a program to monitor and report on the:	NMP – section 12	Compliant

Development Consent 283/97 MOD 4 Schedule 5 condition 2	Management Plan Section	Status
<ul style="list-style-type: none"> • impacts and environmental performance of the development; and • effectiveness of any management measures (see (c) above); 	BMP – section 13 AQMP – sections 11, 12 and 13 WMP- section 12 LRMP – section 13 TMP – section 10	
e) a contingency plan to manage any unpredicted impacts and their consequences;	NMP – section 14 BMP – section 12 AQMP – section 13 WMP – section 14 LRMP – section 14 TMP – section 12	Compliant
(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	NMP – section 12 BMP – section 13 AQMP – section 12 WMP – section 12 LRMP – section 13 TMP – section 10	Compliant
(g) a protocol for managing and reporting any: <ul style="list-style-type: none"> • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and 	NMP – section 12 to 15 BMP – sections 10 and 12 AQMP – section 12 to 15 WMP sections 12 to 15 LRMP – 12, 13, and 14 TMP – sections 10 to 13	Compliant
(h) a protocol for periodic review of the plan.	NMP – section 17 BMP – section 17 AQMP – section 17 WMP - section 17 LRMP - section 16 TMP – section 15	Compliant

5.2.1 Conclusion

Management Plans	Compliance Status	Awaiting response from DP&E re approval
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The Management Plans required under Consolidated Development Consent 283/97 MOD 4 have been prepared to satisfy the requirements of each specific condition of approval and addressed each of the relevant components of the requirements under Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 2. The Management Plans were and submitted to DP&E on 1 August 2016. Comments were received by Pacific Blue Metal from DP&E on 12 September 2016. The draft Management Plans were revised to address the DP&E comments and resubmitted on 6 October 2016.

5.3 Annual Review

[Development Consent 283/97 MOD 4 Schedule 5 condition 9]

An Annual Review was prepared for the “Possum Brush” Quarry reviewing the environmental performance of the development between 1 July 2015 and 30 June 2016, to satisfy Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 9. The Annual Review was submitted to the DP&E on 1 October 2016.

The “Possum Brush” Quarry activities during the reporting period of 1 July 2015 to 30 June 2016 were described for the development under Development Consent 283/97 MOD 3 between 1 July 2015 and 1 April 2016 and Consolidated Development Consent 283/97 MOD 4 1 April and 30 June 2016. As the Annual Review was submitted to the DP&E for the 1 July 2015 to 30 June 2016 period the document was prepared to satisfy Consolidated Development Consent 283/97 MOD 4.

Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 9.1(b) Requirement	Annual Review Section addressing the Requirement	Compliance Status
This review must:		
(i) describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the next year;	Section 2 – Activities during the Reporting Period describes the development that was carried out in the previous 12 months under Development Consent 283/97 MOD 3 between 1 July 2015 and 1 April 2016 and Consolidated Development Consent 283/97 MOD 4 1 April and 30 June 2016. Activities planned between July 2016 and June 2017 are described in section3 provides with targets planned for 2016 to 2017.	Compliant
(ii) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the: <ul style="list-style-type: none"> • the relevant statutory requirements, limits or performance measures/criteria; • the monitoring results of previous years; and • the relevant predictions in the EIS; 	Section 2 –provides a review of the activities and monitoring results for development over the period 1 July 2015 to 30 June 2016, against the relevant statutory requirements, limits or performance measures/criteria. As Development Consent MOD 4 was granted on 1 April 2016, comparison of monitoring results of previous years was not available, but the comparison will be included in subsequent Annual Reviews when data is available. The comparison of monitoring results with relevant predictions in the Environmental Assessment MOD 3 and 4 are commented on for environmental aspects where monitoring occurred.	Compliant Ongoing
(iii) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance,	Section 2 and Appendix 2 provide comment on compliance for each activity and environmental aspect.	Compliant
(iv) identify any trends in the monitoring data over the life of the development;	Section 2 and Appendix 2 - monitoring data is provided and comments on compliance status are provided. As Development Consent MOD 4 was granted on 1 April 2016, trends in monitoring results of previous years was not available.	Compliant Ongoing

Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 9.1(b) Requirement	Annual Review Section addressing the Requirement	Compliance Status
(v) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	The predicted impacts identified in the Environmental Assessment for the Possum Brush Quarry MOD 4 are commented on Section 2 of the Annual Review.	Compliant
(vi) describe what measures will be implemented over the next year to improve the environmental performance of the development.	Section 3 – Activities planned between July 2016 and June 2017 and an overview of activities and targets planned for 2016 to 2017 is provided.	Compliant

5.3.1 Conclusion

Annual Review

Compliance Status

Compliant Ongoing

The Annual Review Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 9 was prepared for the "Possum Brush" Quarry reviewing the environmental performance of the development between 1 July 2015 and 30 June 2016. The Annual Review was generally consistent with the requirements of Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 9 and any trends or comparative assessments of data or targets to address the requirements of the new condition will be included in subsequent Annual Reviews.

5.4 Environmental Monitoring

5.4.1 Environmental Monitoring Program

[Consolidated Development Consent 283/97 Schedule 3 condition 3(d) - Noise]

[Consolidated Development Consent 283/97 Schedule 3 condition 8(c) - Blasting]

[Consolidated Development Consent 283/97 Schedule 3 condition 12(d) -Air Quality]

[Consolidated Development Consent 283/97 Schedule 3 condition 18(d) – Water Quality]

[Consolidated Development Consent 283/97 Schedule 3 condition 21(h) - Rehabilitation]

The monitoring activities undertaken within and surrounding the "Possum Brush" Quarry in accordance with Consolidated Development Consent 283/97 MOD 4 Schedule 3, and Environment Protection Licence 3393 condition L2, L4, L5 and section 5, have included:

- noise monitoring in accordance with the Consolidated Development Consent DA283/97 Mod 4 Schedule 3 condition 3(d), and EPL 3393 condition L4;
- blast monitoring (each blast) in accordance with Consolidated Development Consent 283/97 Schedule 3 condition 8(c), and EPL 3393 condition L5;
- monitoring rainfall levels (daily);
- water quality overflow from Dam 3 in accordance with Consolidated Development Consent 283/97 Schedule 3 condition 18(d), and EPL 3393 conditions P1.3, ;
- weather-related monitoring (currently recorded at the Failford Quarry)
- rehabilitation / regeneration activities in accordance with Consolidated Development Consent 283/97 Schedule 3 condition 21(h).

Environmental monitoring to be implemented during 2017 will include:

- deposited dust monitoring following installation of the dust deposition gauges in accordance with the Air Quality Management Plan section 11 (to satisfy Development Consent 283/97 MOD 4 Schedule 3 condition 12(d);

- weather-related monitoring following the installation of a new weather station on the “Possum Brush” Quarry site.

Monitoring results are assessed by Pacific Blue Metal personnel as they are received to ensure the measured parameters are within the conditional limits or criteria. All monitoring results collected will be collated to identify any trends with previous results and provide the basis for an ongoing review of the environmental monitoring and performance of the “Possum Brush” Quarry.

5.4.2 Conclusion

Environmental Monitoring Program	Status:	Compliant Ongoing
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The Environmental Monitoring Programs included in the various Environmental Management Plans for the “Possum Brush” Quarry include meteorological monitoring, surface water quality monitoring of any discharge from Dam 3 to the environment, and noise monitoring required under in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 1 to 3. The installation of dust deposition gauges and a meteorological monitoring station on site was being progressed at the date of this audit and are planned for installation by Q1 2017.

5.5 Noise

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 1 to 3]

[Environment Protection Licence 3393 condition L4]

5.5.1 Noise Management Plan

[Development Consent 283/97 Schedule 3 condition 3]

A draft Noise Management Plan for the Possum Brush Quarry was prepared to satisfy Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 3 and submitted to the DP&E on 1 August 2016. Comments were received from DP&E by Pacific Blue Metal on 12 September 2016. The draft Noise Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E in relation to approval of this Plan, at the date of this audit.

5.5.2 Environmental Assessment - Noise

5.5.2.1 Environmental Assessment (2012)

The additional extraction proposed in the south-eastern corner of Area B of the ‘Possum Brush’ Quarry, was assessed and it was concluded that no additional noise safeguards would be required beyond those already adopted within the quarry. The proposed extraction at the southern side of Area B is located in an area shielded from local residences by the surrounding topography to the south and the east. All earth moving equipment used for the proposed extraction would operate within the approved hours of operation for the quarry.

Annual noise monitoring conducted by Spectrum Acoustics, in support of the Development Consent 283/97 and Environment Protection Licence 3393 conditions established the quarry operations are compliant with the requirements of the Environment Protection Licence 3393 condition L4. Noise measurements undertaken by Spectrum Acoustics and the EPA have established that the noise levels of the occasional truck travelling on the internal site access road are comparable to heavy vehicles travelling on the nearby Pacific Highway.

It was concluded that in the absence of any substantial change in the method of operation, and the proposed shielded location of the proposed additional area for extraction, there would not be any change in the noise levels emitted from the quarry.

5.5.2.2 Environmental Assessment (2015)

The principal noise source in the vicinity of the “Possum Brush” Quarry contributing to the background noise levels experienced at surrounding residences, is traffic travelling on the Pacific Highway. Other noise sources

include traffic on local roads, agricultural equipment, equipment used on rural-residential properties, stock, birds and wind.

Background Noise Levels

Assessment of ambient noise levels at three of the most potentially affected residences surrounding the “Possum Brush” Quarry during August and September 2015 and the monitoring and predicted noise level results from modelling (Spectrum Acoustics 2015) showed that under the assessed operational and meteorological conditions, no exceedance of the operational noise criteria would occur as a result of the modification to the quarry. Noise levels were assessed to be significantly lower than the noise impact assessment criteria specified in Development Consent 283/97 and EPL 3393 at all receivers under the modelled neutral atmospheric and west-northwest wind and temperature inversion conditions.

Possum Brush Noise Criteria

[Development Consent 283/97 Schedule 3 condition 1]

The Quarry operates under operational noise criteria detailed in Environment Protection Licence 3393 condition L4 and Development Consent 283/97 MOD 4 Schedule 3 condition 1.

Noise criteria dB(A) Development Consent 283/97 Schedule 3 condition 1

Receiver	Day/Evening	Night	
	<i>LAeq(15 min)</i>		<i>LA1(max)</i>
5 St Peters Close	39	39	45
175 Possum Brush Rd	38	38	45
55 Possum Brush Road	37	37	45
All other residences	35	35	45

Traffic Noise Criteria

For the noise assessment, Possum Brush Road is considered to be a local road and the Pacific Highway is considered as a freeway/arterial road as defined within the NSW Road Noise Policy (RNP). The relevant traffic noise criteria in the RNP of 55 - 60_{Leq(15hr)} apply for the truck movements between 7:00am and 6:00pm and the night-time criteria of 50 - 55_{Leq(9hr)} would apply between 6:30am and 7:00am.

NSW Road Noise Policy Assessment Criteria

Type of Project	Assessment Criteria	
	Day (7am to 10pm)	Night (10pm to 7am)
Existing residences affected by additional traffic on existing freeway/arterial/sub-arterial roads, generated by land use development	60 _{Leq(15hr)} External	55 _{Leq(9hr)} External
Existing residences affected by additional traffic on existing local roads, generated by land use development	55 _{Leq(15hr)} External	50 _{Leq(9hr)} External

(It is noted that all traffic noise generated from transport of quarry products on private roads within the quarry site, were assessed under the NSW Industrial Noise Policy (INP) as a contribution to operational noise).

5.5.3 Noise Control Measures

[Noise Management Plan section 10]

Noise mitigation measures implemented for the “Possum Brush” Quarry operations have included:

- All mobile equipment is maintained mechanically to ensure the sound power levels are consistent with the manufacturers specifications.

- All Pacific Blue Metal mobile equipment at the "Possum Brush" Quarry is fitted with mid-frequency reversing alarms;
- Restriction of quarry operations adopted by Pacific Blue Metal for the "Possum Brush" Quarry to day time hours (i.e. 6:30 am to 6 pm Monday to Friday 7 am to 3 pm Saturday, mitigates noise generation from the quarry activities.
- The use of the Quarry Access Road is restricted to approved hours for loading and dispatch of trucks to minimise truck / traffic noise. Loading of delivery trucks does not commence until 6.30am. Crushing, load and haul operations generally do not commence until after 7.00am;
- Truck movements between 6:30am and 7:00 am are confined to 10 or less, with emphasis placed upon "Possum Brush" Quarry based trucks departing the quarry site before 7:00am;
- The Drivers Code of Conduct included in the Traffic Management Plan requires truck drivers to reduce use of compression braking wherever possible, to limit changing of gears, and to maintain vehicles to an acceptable standard to minimise noise emissions. (Note: Drivers who do not comply with the Drivers Code of Conduct are not permitted to undertake return work to the Quarry);
- All truck drivers are instructed to restrict their vehicle speed on Possum Brush Road to ≤ 70 kph in accordance with the Drivers Code of Conduct and during the delivery driver's induction;
- Noise complaints are investigated and follow-up action taken where appropriate to mitigate the noise emissions complaints.

Noise mitigation measures implemented for the "Possum Brush" Quarry operations are considered to be effective in controlling noise from all on-site activities. A key factor in the reduction of noise emissions from the quarry activities, is the topography surrounding the quarry development and barriers created by the quarry extraction faces.

The noise impact from the 'Possum Brush' Quarry Project on surrounding residences was assessed to be minimal in the Environmental Assessment (2009, 2012 and 2015) in the Specialist Consultant Noise and Vibration Impact Assessments, and monitored noise levels at the residences assessed in 2015 were within the noise assessment criteria in the Consolidate Development Consent 283/97 MOD 4, EPL 3393 condition L4 and the NSW Industrial Noise Policy criteria.

5.5.4 Noise Monitoring

[Consolidated Development Consent 283/97 Mod 4 Schedule 3 condition 1 and 3(d)1]

[Environment Protection Licence 3393 condition L4]

Attended noise monitoring has been undertaken for the "Possum Brush" Quarry at the following locations in accordance with Environment Protection Licence 3393 condition L4 and at the locations identified in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 1.

- 5 St Peters Close - Receiver Site 1
- 175 Possum Brush Rd – Receiver Site 2
- 55 Possum Brush Road – Receiver Site 3
-

Noise monitoring was undertaken by Spectrum Acoustics on three occasions in 2015: (i.e. 17 September 2015, 20 October 2015 and 24 November 2015) at the following locations (see Figure 5.3.4).

17 September 2015 - attended noise monitoring for $L_{eq(15min)}$ noise levels commenced at approximately 5.00pm. During the monitoring period, activities within the "Possum Brush" Quarry were inaudible at Sites 1 and 3 and were 25dB(A) at Site 2. At all sites, the insects / birds / frogs and distant traffic (on the Pacific Highway) were the main contributors to the noise levels recorded. At Site 1 a water pump was recorded at 33dB(A).

20 October 2015 - attended noise monitoring for $L_{eq(15min)}$ noise levels commenced at approximately 6:00am, during a period when the asphalt plant was operational until 6:30am, at which time the "Possum Brush" Quarry activities commenced. At Site 1, activities within the "Possum Brush" Quarry were barely audible, but the noise

associated with trucks on the access road were discernible. At Sites 2 and 3, activities within the “Possum Brush” Quarry were inaudible. At all sites, the insects/birds/frogs and distant traffic (on the Pacific Highway) were the main contributors to the background noise levels recorded.

24 November 2015 - attended noise monitoring for $L_{eq(15min)}$ noise levels commenced at approximately 6:00pm during a period when the asphalt plant was operational and coinciding with asphalt trucks departing from the plant. Other noise sources dominated the measured noise levels with the calculated contribution to the “Possum Brush” Quarry activities at Site 1 being 26dB(A), Sites 2 and 3 being inaudible. Again, at all sites, the insects/birds/frogs and distant traffic (on the Pacific Highway) were the main contributors to the noise levels recorded.



Possum Brush Quarry site and Possum Brush Quarry site access road.

Figure 5.3.4: Noise Monitoring Sites – Possum Brush Quarry

While it was noted that truck movements on the quarry access road were audible at Site 1 (5 St Peters Close), the monitored noise results established that the noise levels recorded at each of the three locations were below the noise assessment criteria limits nominated in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 1 and Environment Protection Licence 3393 condition L4.

It was noted that identification of the noise monitoring locations was provided in Table 1 and Figure 1 of the Spectrum Acoustics reports. The detailed location of the noise monitoring equipment at each location was not provided in the noise reports prepared by Spectrum Acoustics.

Noise Recommendation:

It is recommended that Spectrum Acoustics report the location noise monitoring equipment during the monitoring period in future reports, in accordance with the requirements in EPL condition L4.6 and provide comment on the requirements in Development Consent 283/97 Appendix 3 Noise Compliance Assessment.

5.5.6 Conclusions

Noise	Status	Compliant
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Noise mitigation measures implemented for the “Possum Brush” Quarry operations are considered to be effective in controlling noise from all on-site activities. A key factor in the reduction of noise emissions from

the quarry activities, is the topography surrounding the development and barriers created by the quarry extraction faces.

The noise monitoring of the quarry operations at the nominated receivers, demonstrated compliance with the Environment Protection Licence 3393 condition L4.1 and Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 1, with the “Possum Brush” Quarry operations noise ranging from inaudible to 1dB(A) below the noise assessment criteria for both quarrying and transport operations.

5.6 Blasting

[Consolidated Development Consent 283/97 Schedule 3 condition 4 to 8

5.6.1 Blast Management Plan

[Consolidated Development Consent 283/97 Schedule 3 condition 8]

A draft Blast Management Plan for the Possum Brush Quarry was prepared to satisfy Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 8 and submitted to the DP&E on 1 August 2016. Comments were received from DP&E by Pacific Blue Metal on 12 September 2016. The draft Blast Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E in relation to approval of this Plan, at the date of this audit.

The Blast Management Plan section 6 states - *“The primary objectives of blast management at the Quarry are to ensure that blasting activities are undertaken in a manner that minimises annoyance, amenity and any adverse impacts resulting from the impact of airblast overpressure and ground-borne vibration at surrounding rural residences or buildings.”*

To achieve blast management at the “Possum Brush” Quarry the following objectives and key performance outcome commitments have been implemented:

Blast Management Objectives	Key Performance Outcomes	Status
Ensure compliance with the criteria of DA 283/97, EPL 3393 and reasonable community expectations.	Compliance with all relevant criteria and reasonable community expectations, as determined in consultation with the relevant government agencies.	Compliant
Blast management and mitigation measures during all stages of Quarry operation.	All identified blast management and mitigation measures implemented (Blast Management Plan section10.1).	Compliant
A blast monitoring program to establish compliance or otherwise with relevant criteria during all stages of Quarry operation.	All identified monitoring undertaken in accordance with the Plan. (Blast Management Plan section11).	Compliant
A complaints handling and response protocol.	Complaints (if any) are handled and responded to in a timely manner. All complaints are recorded and reported in accordance with annual reporting requirements.	Compliant
Corrective and preventative actions, if required.	Corrective and preventative actions implemented, if required. (Blast Management Plan section13).	Compliant
An incident reporting program, if required.	Incidents (if any) reported and recorded (Blast Management Plan section12).	Compliant

5.6.2 Environmental Assessment - Blasting

An evaluation of all blasting results recorded for the "Possum Brush" Quarry identified that all blasts monitored between 1998 and 2016 complied with the blast criteria for airblast (overpressure) and vibration specified in the Development Consent 283/97 and Environment Protection Licence 3393. Less than 5% of the total blasts conducted at the "Possum Brush" Quarry were less than the 120dB(L) maximum criteria limit, and no blast exceeded the 120dB(l) criteria. No blast resulted in the ground vibration criteria of 5mm/sec being exceeded.

Blasting at the quarry has been monitored since 1998.

5.6.3 Blast Criteria

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 4]

[Environment Protection Licence 3393 condition L5]

The criteria for any blast conducted at the "Possum Brush" Quarry are expressed in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 4 and EPL 3393 condition L5.1 to L5.4. (These criteria are consistent with ANZECC Guideline to Minimise Annoyance due to Blasting Overpressure and Ground Vibration, September 1990).

Location	Airblast overpressure dB(LinPeak)	Ground vibration (mm/s)	Allowable exceedance
Any residence on privately owned land	120 dBL	10 mm/s	0%
	115 dBL	5 mm/s	5% of the total number of blasts over a period of 12 months

5.6.4 Blast Frequency

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 5]

Blasting at the Possum Brush Quarry has not exceeded 2 blasts per calendar month, with only six blasts initiated in 2015-2016. Blasting frequency is compliant with the requirement of Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 5.

5.6.5 Blast Monitoring

[Development Consent 283/97 Schedule 3 condition 8(c)]

The nearest residence to the "Possum Brush" Quarry Extraction Area where blasting is conducted is approximately 700m to the south and 1 000m to the north.

Blast monitoring has occurred for all blasts initiated at the "Possum Brush" Quarry. All blasts were monitored at Residences R1 (5 St Peters Close) and R2 (175 Possum Brush Road). Details of measurement locations are not provided on the blast reports (only the residence address). Airblast (overpressure) and vibration monitoring results during 2015 and 2016 have demonstrated compliance with the blast criteria specified in EPL 3393 condition L5 and Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 4:

Monitoring Location	Airblast Results dB(L)	Ground Vibration mm/s
R1 - 5 St Peters Close	98.8 to 105.5	1.00 to 2.66
R2 - 175 Possum Brush Road	111.3 to 105.5	0.24 to 0.67

No complaints have been received by Pacific Blue Metal regarding blasting at the Possum Brush Quarry.

5.6.6 Conclusion - Blasting

The Blast Management Plan states - *“The primary objectives of blast management at the Quarry are to ensure that blasting activities are undertaken in a manner that minimises annoyance, amenity and any adverse impacts at surrounding rural residences or buildings.”*

Blast events and blasting frequency at the quarry are compliant with the requirement of Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 5 and airblast (overpressure) and vibration monitoring results demonstrated compliance with the blast criteria specified in EPL 3393 condition L5 and Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 4.

5.7 Air Quality

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 9 to 12]

5.7.1 Air Quality Management Plan

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 12]

A draft Air Quality Management Plan was prepared to satisfy Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 12, and submitted to DP&E on 1 August 2016. Comments from DP&E were received by Pacific Blue Metal on 12 September 2016. The draft Air Quality Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E in relation to approval of this Plan, at the date of this audit.

The Air Quality Management Plan section 10 outlines dust control measures that include:

Dust Source	Dust Mitigation Procedures
General	An assessment of meteorological information is undertaken prior to the commencement of daily operations, to determine if adverse wind conditions are predicted Assess meteorological information prior to the commencement of daily operations, to determine if adverse wind conditions are predicted Visually inspect operations for visible dust and adjust operations to reduce visible dust
Loading of extracted rock	Minimise the drop heights between front-end loader buckets and truck carrying extracted materials
Product stockpiles	Maintain product handling areas / stockpiles in a moist condition as required to minimise wind-blown and traffic-generated dust.
Internal roads	All unsealed roads and trafficked areas will be watered, as required, to minimise the generation of dust. Enforce a speed limit of 40km/hr on the Quarry access road and 25km/hr on all internal unsealed roads within the Quarry Development of minor roads or tracks will be limited and the locations of these clearly defined Obsolete roads will be ripped and re-vegetated
Transportation of product	Cover all loads prior to leaving the Quarry Prohibit all vehicles and machinery from idling unnecessarily
Rehabilitation	Progressively rehabilitate finished areas, using reserved topsoil (where available), to maximise re-colonisation with endemic species. Install erosion/dust control where needed in inactive, but unfinished areas

5.7.2 Environmental Assessment - Air Quality Assessment

5.7.2.1 Environmental Assessment (November 2012)

The additional extraction proposed in the south-eastern corner of Area B of the 'Possum Brush' Quarry, was assessed and it was concluded in the Environmental Assessment (2012) that the proposed works would not change the level of dust emissions from the quarry and the local topography to the west, south and east, and the prevailing winds in the vicinity of Possum Brush, would provide considerable shielding of surrounding residences from any dust impact from the quarry.

Pacific Blue Metal has established through the existing operations within weathered greywacke, that there is sufficient moisture in the rock to limit dust generation during extraction using an excavator.

The topography around the quarry works and the substantial native vegetation surrounding the quarry has mitigated the dispersion beyond the quarry boundaries, of the low levels of dust generated by the quarry operations. Given the low levels of quarry-related dust in the local environment, no statutory requirement for dust monitoring has been imposed on the quarry.

The absence of quarry related dust complaints since the quarry commenced operation further supports lack of dust nuisance and the effectiveness of dust controls within the quarry.

5.7.2.2 Environmental Assessment (November 2015)

The Environmental Assessment (dated November 2015) assessed the air quality aspects related to the proposed MOD 4. As the quarry area is well shielded with considerable topographic relief to the north, east and south the process plant, fitted with a range of water sprays positioned on the delivery hopper, four crushers and conveyor discharge points, is not considered a significant source of dust generation.

The 1.4km Quarry Access Road from its intersection with Possum Brush Road to the quarry operational area is paved. Dust suppression on the internal unsealed roads and processing and other operational areas of the quarry, is achieved with the regular use of a water cart.

The "Possum Brush" Quarry will continue to operate in a manner that will manage dust generation and achieve the necessary levels of efficiency to minimise the generation of greenhouse gases by optimising the use of diesel and electrical power.

AS part of the Environmental Assessment (2015), Ramboll Environ assessed the impacts of the existing quarry operations and future operations through modelling using the CALPUFF (Version 6.2) modelling system:

- Scenario 1: current operations at the average production level of 240 000tpa.
- Scenario 2: proposed future operations at a maximum production level of 500 000tpa.

The modelling predicted concentrations of TSP, PM₁₀ 24hour, PM₁₀ Annual Average, PM_{2.5} 24hour and PM_{2.5} Annual Average, and Annual Average dust deposition levels for eight representative residences around the Quarry. The results of this air quality impact assessment were:

- The predicted ground-level concentrations and deposition rates from the current operations at the "Possum Brush" Quarry were within NSW EPA assessment criteria for all pollutants and averaging periods modelled.
- The proposed increase in annual extraction and production to 500,000tpa was predicted to increase air quality impacts at all surrounding residences albeit at levels well below the applicable criteria for both scenarios at all residences.
- The incremental concentrations predicted by Ramboll Environ (2015) are minor in comparison with the indicative ambient background concentration. No air quality monitoring was considered to be required at residential locations surrounding the Possum Brush Quarry. Air quality has not been a substantive issue at the Quarry particularly given the extensive remnant vegetation that remains on Pacific Blue Metal property around the operational areas.

On the basis of the modelling conducted, adverse air quality impacts arising from particular matter are considered unlikely.

5.7.2.3 Greenhouse Gas

The primary source of greenhouse gas emissions at the Quarry would continue to be the consumption of diesel fuel by the on-site mobile equipment and trucks transporting quarry products and the use of electrical power to operate the processing plant. Pacific Blue Metal ongoing use of measures to optimise the use of diesel and purchased electrical power would ensure that Quarry-related greenhouse gas emissions are minimised.

As the predicted air quality impacts generated by the "Possum Brush" Quarry would continue to be low and unlikely to exceed air quality criteria, monitoring cannot be justified. (It is noted that EPL 3393 for Possum Brush Quarry has no air quality monitoring requirements).

5.7.3 Air Quality Assessment Criteria

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 9]

[Environment Protection Licence condition P1.1, L2.4]

Air Quality impact assessment criteria for 'Possum Brush' Quarry are presented in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 9:

Air Quality Criteria – Quarry Operations

Pollutant	Averaging Period	Criterion	
Particulate matter < 10 µm (PM10)	24hour	50 µg/m ³	
Particulate matter < 10 µm (PM ₁₀)	Annual	30 µg/m ³	
Total suspended particulate (TSP) matter	Annual	90 µg/m ³	
Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month

Air quality concentration limit for the Asphalt Plant emissions (EPA Identification Point 1) is specified in the Environment Protection Licence 3393 condition L2.4:

Air Quality Criteria – Asphalt Plant

Pollutant (Point 1)	Unit of Measure	100 percentile concentration limit
Solid particles	mg/m ³	50

5.7.4 Air Quality Monitoring Program

[Consolidated Development Consent 283/97 Schedule 3 condition 12(d)]

No air quality monitoring was required to be undertaken for the "Possum Brush" Quarry operations prior to the granting of Consolidated Development Consent 283/97 MOD 4. Air quality has not been a substantive issue from the "Possum Brush" Quarry operations due to the area of disturbed land for the quarry and the topography and extensive remnant vegetation that remains on Pacific Blue Metal land surrounding around the quarry operational areas.

A deposited dust monitoring program for the 'Possum Brush' Quarry project was being established in accordance with Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 12(d) at the date of this audit, with the dust deposition gauge locations determined and procurement of the dust gauges underway.

5.7.5 Review of Dust Monitoring Results

Initial air quality monitoring of the emissions from the asphalt plant was required by the EPA in Environment Protection Licence 3393 Variation 1083017 condition M8.1 dated 15 April 2008. The emissions testing of total particulates from the asphalt plant was undertaken in December 2008 and it established that the concentration measured $3.8\text{mg}/\text{m}^3$ was significantly less than the $50\text{mg}/\text{m}^3$ limit specified in the *Protection of the Environment Operations Clean Air Regulation 2002*. The requirement for monitoring of emissions from the asphalt plant was discontinued following the initial monitoring imposed by the EPA, with conditions M8.1 and M8.2 removed from the Environment Protection Licence 3393 with Variation No. 1110571 dated 14 January 2010.

5.7.6 Conclusion

<u>Air Quality</u>	<u>Compliance Status</u>	<u>Compliant</u>
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Air quality has not been a substantive issue at the "Possum Brush" Quarry given the surrounding topography and extensive remnant vegetation that remains on Pacific Blue Metal property around the operational areas. The Air Quality Assessment (2015) and modelling conducted for the "Possum Brush" Quarry predicted that ground-level concentrations and deposition rates from the operations were within NSW EPA assessment criteria for all pollutants and averaging periods modelled. The incremental concentrations predicted were minor in comparison with the indicative ambient background concentration. No air quality monitoring was considered to be required at residential locations surrounding the "Possum Brush" Quarry.

5.8 Site Water Management

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 15 to 18]

5.8.1 Regional Setting

The "Possum Brush" Quarry lies within the catchment of Bungwahl Creek, a tributary of the Wallamba River, that flows into the northern end of Wallis Lake near Forster. Three small surface water catchments that form part of the of Bungwahl Creek catchment, upstream of the Pacific Highway may receive runoff from the "Possum Brush" Quarry area (shown as A, B and C in Figure 5.8.1).

The entire Possum Brush Quarry extraction and processing area, and asphalt plant lie within the headwaters of Catchment Area A (approximately 2.5km^2). The bulk of the extraction area lies within Catchment Area A, and drains to Dam 3. Dam 3 is not within the boundary of the "Possum Brush" Quarry operational area and the water flows from the quarry boundary through Pacific Blue Metal's property (Lot 66 DP608957) at least 800m downstream to Dam 3). The western part of the existing extraction area currently drains to the west toward a small first order stream that flows north-east towards Bungwahl Creek, 2.8km from the extraction area.

The lower 0.5km of the Quarry Access Road lies within Catchment B, a catchment of approximately 2km^2 . Runoff from this section of road flows to the northwest towards a first order stream that crosses Possum Brush Road, 1.3km north of the Quarry Access Road / Possum Brush Road intersection.

The Quarry Administration Office and a 0.5km section of the Quarry Access Road does not include any area disturbed by the quarry extraction activities. The "clean" runoff from this area is collected within Catchment C and enters Bungwahl Creek upstream from the Pacific Highway.

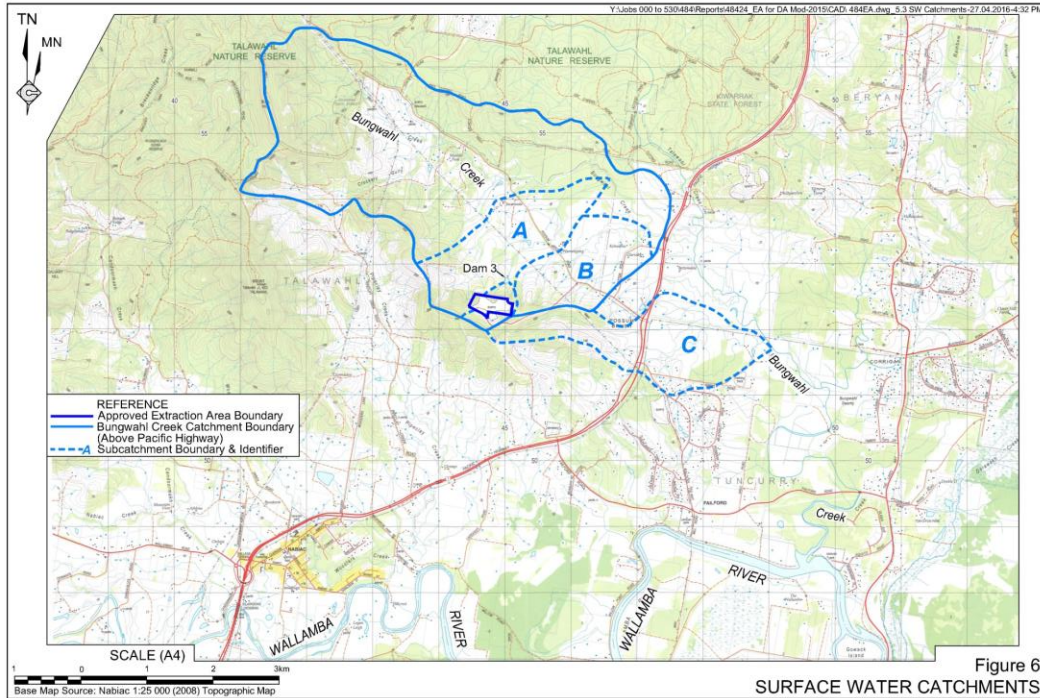


Figure 5.8.1: Surface water catchment areas around the Possum Brush Quarry

5.8.2 Water Management Plan

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 18]

A draft Water Management Plan prepared to satisfy Development Consent 283/97 Schedule 3 condition 18 was submitted to the DP&E on 1 August 2016. Comments were received from DP&E by Pacific Blue Metal on 12 September 2016. The draft Water Management Plan was revised to address the DP&E comments and resubmitted for approval on 6 October 2016. Pacific Blue Metal was awaiting a response from the DP&E re the approval of the Water Management Plan at the date of this audit.

The water management objectives and key performance outcomes outlined in the Water Management Plan section 6 are to ensure:

Objectives	Key Performance Outcomes
Compliance with the criteria of DA 283/97, EPL 3393 and reasonable community expectations.	Compliance with all relevant criteria and reasonable community expectations, as determined in consultation with the relevant government agencies.
Adequate water is available during all phases of the life of the Quarry for environmental and operational purposes	Sufficient water available for all Quarry-related purposes, including for environmental and operational purposes.
Effective sediment and erosion control measures are implemented and maintained.	Water management structures constructed and maintained in accordance with Landcom (2004) and DECC (2008).
Effective chemical and hydrocarbon management is implemented and maintained.	All chemicals and hydrocarbons are stored and used in accordance with Australian Standards to reduce the risk of water contamination.
Water within the Quarry Site is used in an efficient and environmentally responsible manner.	Water resources are managed to maximise environmental flows and minimises the potential for adverse impacts to water resources.

Objectives	Key Performance Outcomes
Effective surface water program is implemented during the life of the Quarry.	Water monitoring is sufficiently robust to detect any adverse water quality or quantity impacts associated with the Quarry to allow adaptive management measures to be implemented.
Appropriate contingency and emergency management plans are in place and annually reviewed.	Contingency and emergency management plans are prepared and implemented, and reviewed annually.
Implement an incident reporting program.	Incidents (if any) recorded and recorded
All relevant water-related information is made available in a timely and accessible manner.	All relevant water-related information is available on the Pacific Blue Metal website

5.8.3 Environmental Assessment – Water Management

5.8.3.1 Environmental Assessment (November 2012)

The surface water runoff from the extraction area proposed at the “Possum Brush” Quarry would flow in the same direction as it currently does towards, and into Dam No. 1. There is limited upslope runoff from the proposed additional extraction area as the site access road collects the bulk of the upslope runoff for direction to the site water management system. Dam 1 is the upper-most dam within the approved quarry area and is used as a source of water for dust suppression within the quarry. This dam rarely overflows, but in an event that an overflow does occur, the water reports to Dam 3 beyond the northern boundary of the approved quarry, on land owned by the Pacific Blue Metal.

Surface water monitoring undertaken for any overflow from Dam 3 in accordance with Environment Protection Licence 3393 conditions P1.3, L2.5 and M2.2, has exhibited compliance with the discharge requirements of Environment Protection Licence 3393 at Environment Protection Authority identified Point 2.

The absence of any change in the direction of runoff and the minimal change in the quantity of runoff (due to higher runoff coefficient), would not change the existing impact of the quarry activities on the quality of surface water from the site. As a consequence, there would no additional impacts relating to surface water.

5.8.3.2 Environmental Assessment (2015)

Surface water is managed within the Possum Brush Quarry through a series of sediment control dams and a sump within Extraction Area A. The surface water collected in the sump in Extraction Area A is sufficient to meet the requirements for dust suppression and make-up water for the quarry product processing plant.

Water quality monitoring occurs from within the overflow channel from Dam 3 (EPA Identification Point No. 2) during any discharge event in accordance with Development Consent 283/97 MOD 3 conditions 25 and 26, with water quality limits prescribed in EPL 3393 condition L2.5.

The EPL 3393 surface water quality limits nominate a maximum total suspended solid limit of 50mg/L, pH values between 6.5 and 8.5 and no visible oil and grease at the time of sampling. Sulphate and chloride were opportunistically measured to determine if these values are within suitable limits for use as make up process water for use in the processing operations. The appropriate ANZECC guideline levels for sulphate and chloride have been used for assessment, being 300mg/L and 400mg/L respectively) and the surface water monitored demonstrated a quality consistent with the ANZECC Guidelines.

5.8.4 Site Water Balance

[Consolidated Development Consent 283/97 Schedule 3 condition 18(c)]

5.8.4.1 Site Water Balance -Water Management Plan

The Site Water Balance required in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 18(c) is addressed in section 9.1 to 9.3 of the Water Management Plan for the “Possum Brush” Quarry. The Site Water Balance includes the sources and security of water supply; water uses, losses and management on site; off-site water transfers; and reporting procedures as required by Development Consent 283/97 MOD 4 Schedule

3 condition 18(c). The draft Water Management Plan including the Site Water Balance, was submitted to the DP&E on 1 August 2016. Comments were received from DP&E by Pacific Blue Metal on 12 September 2016. The draft Water Management Plan (including the Site Water Balance) was revised to address the DP&E comments and resubmitted for approval on 6 October 2016. Pacific Blue Metal was awaiting a response from DP&E in relation to approval of the Plan at the date of this audit.

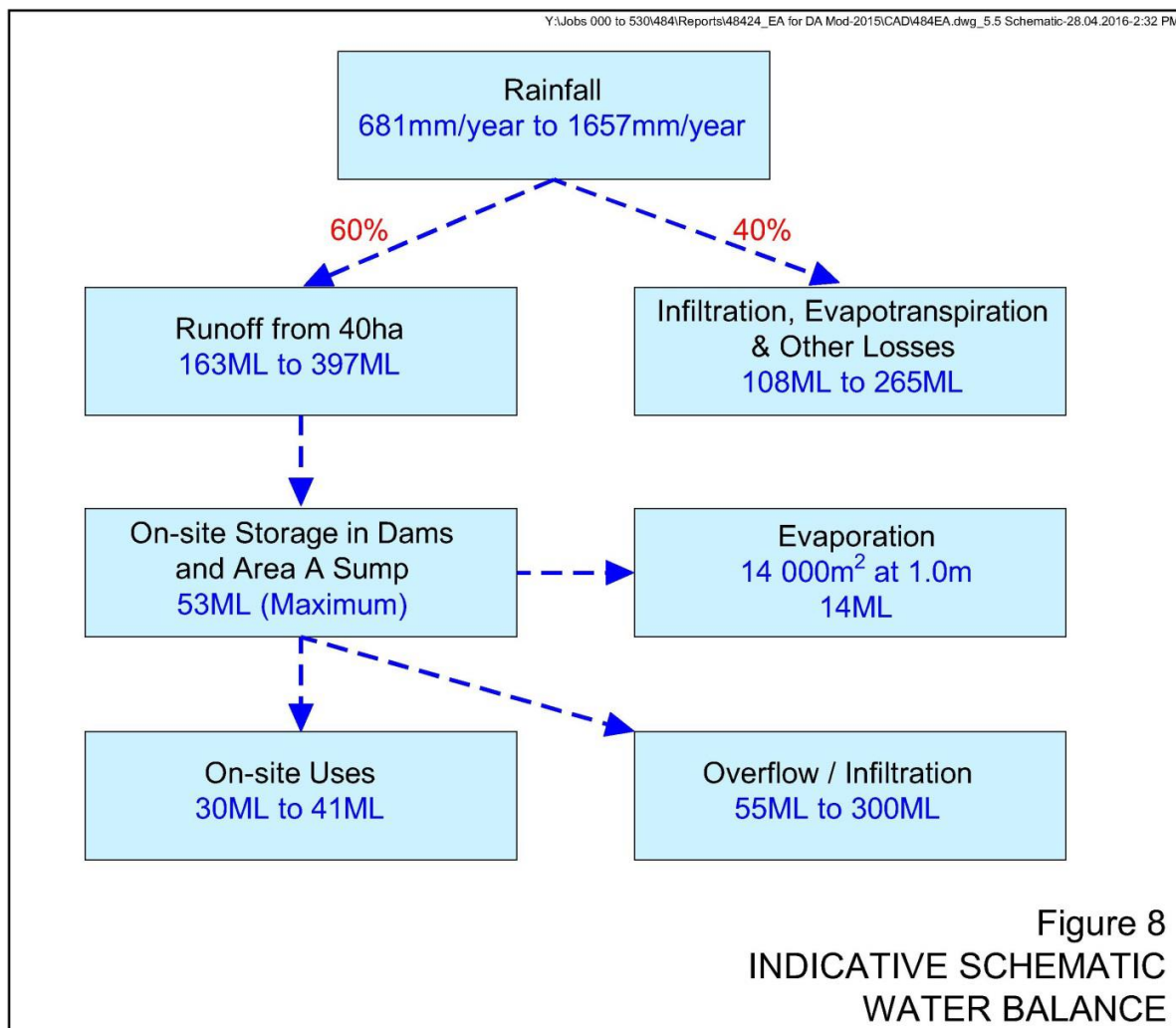
On-site Water Demand annually is

- Dust suppression (by the 22 000L on-site water truck) = 16ML to 21ML
- Dust suppression (on the processing plant) = 7.4ML to 10ML
- Pugmill/wetmix plant usage = 6.6ML to 10ML

In total, approximately 30 - 41ML would be used annually dependent on the tonnage of product extracted.

Water supply for dust suppression and wash-down is primarily sourced from Dam 1 (15ML capacity) that has adequate capacity to supply the amount of water required except during very dry periods when water may be pumped from Dam 3 (15ML capacity) or the internal quarry sump (17ML capacity). In total, the water storage allocated to supply for quarry-related purposes has a combined capacity of approximately 47ML.

Figure 5.8.4.1 presents an indicative schematic of the water balance displaying the input, usage and losses. Pacific Blue Metal has not experienced any water shortages at the "Possum Brush" Quarry and the current storage capacity of 53ML on site would provide a high level of availability for the water requirements in the event annual production approached 500 000tpa.5.8.4.5



5.8.4.2 Conclusion – Site Water Balance

The site water balance indicates that water supply for dust suppression and wash-down (primarily sourced from Dam 1 that has 15ML capacity) is adequate to supply the amount of water required for the operation of the quarry activities except during very dry periods when water may be pumped from Dam 3 (15ML capacity) or the internal quarry sump (17ML capacity). Pacific Blue Metal has not experienced any water shortages at the Possum Brush Quarry and the current storage capacity of 53ML on site provides a high level of availability for the water requirements in the event annual sales approached 500 000tpa.

5.8.5 Surface Water Management

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 18(d)]

5.8.5.1 Surface Water Management - Water Management Plan

The Surface Water Management requirements in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 18(d) are addressed in section 9.4 of the Water Management Plan for the Possum Brush Quarry. The draft Water Management Plan was submitted to the DP&E on 1 August 2016. Comments were received from DP&E by Pacific Blue Metal on 12 September 2016. The draft Water Management Plan (including the Surface Water Management section) was revised to address the DP&E comments and resubmitted for approval on 6 October 2016.

The Surface Water Management at the "Possum Brush" Quarry operates in a manner that results in all surface runoff generated within the quarry extraction area and surrounds reports to the storage dams and sumps within the quarry or Pacific Blue Metal's property as required by Consolidated Development Consent 283/97 MOD 4

5.8.5.2 Surface Water Management

Surface water is managed within the "Possum Brush" Quarry through a series of sediment control dams and a sump within Extraction Area A. The surface water collected is sufficient to meet the requirements for dust suppression and make-up water for the quarry product processing plant.

Dam 1 collects runoff from the southern side of the "Possum Brush" Quarry activities that include the processing plant, asphalt plant, product stockpile areas and internal roads. Dam 1 has a capacity of approximately 15ML with a pump positioned to distribute water to the on-site water truck and the dust suppression system within the processing plant.

Dam 3 has a capacity of approximately 15ML and overflows to the northwest via a 200m long overflow channel. The Environment Protection Licence 3393 condition P1.3 licenced discharge Point 2 from the "Possum Brush" Quarry site occurs to a vegetated overflow channel. Dam 3 receives runoff principally from overflow from northern side of Extraction Area A and Area B and the overflow from Dam 1.

Dam 4 has a capacity of approximately 6ML and effectively collects upslope runoff above the asphalt plant and the excavated slopes adjacent to the dam storage. A rock-lined spillway is positioned on the north-western corner of the dam wall and any overflow would report to Dam 1. Water from this dam is used within the asphalt plant and is required to provide deluge water for the asphalt gas tank via the two high pressure hydrants that are located at both ends of the gas tank.

A sump developed in the north-eastern corner of Extraction Area A in an area where quarrying occurred to approximately 90mAHD. The sump collects runoff from Area A and its elevated surrounds. This water is retained as a suitable back-up supply in the event Dam 1 requires top-up during dry periods.

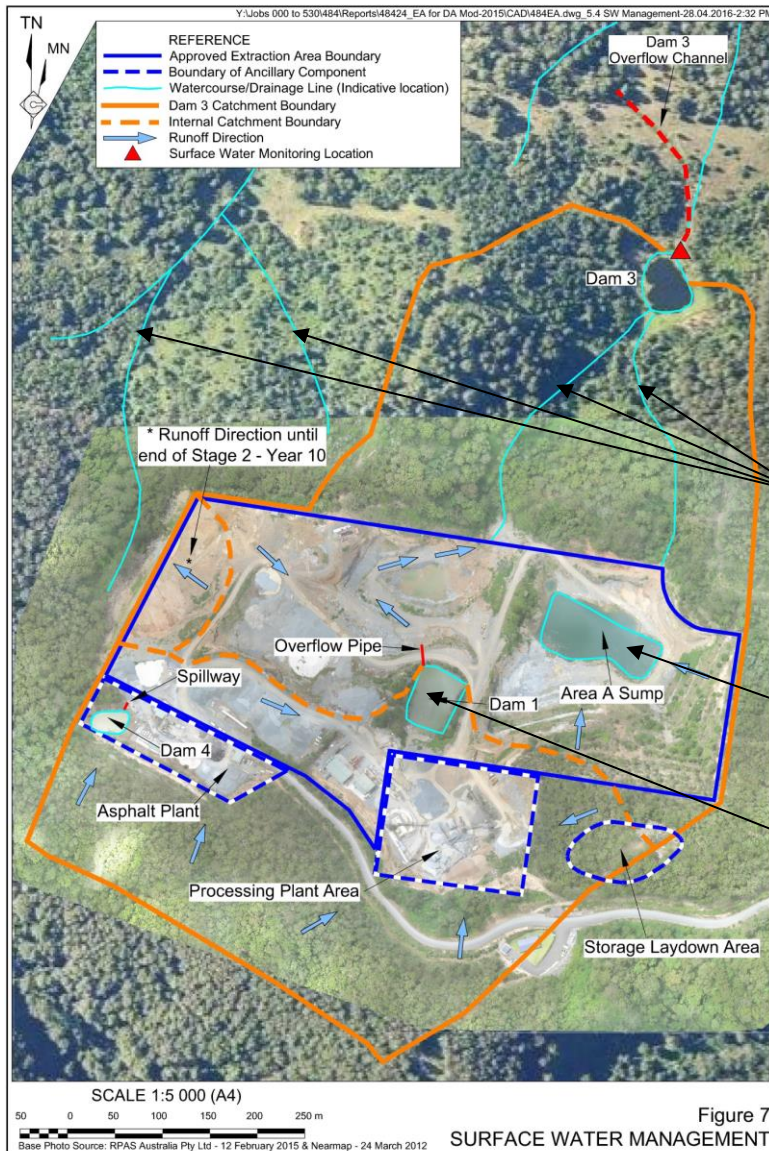


Figure 5.5.3: Potential ephemeral water drainage lines surrounding the Possum Brush Quarry

Figure 5.8.5.1 shows the alignment of potential ephemeral water drainage lines surrounding the Possum Brush Quarry boundaries (Blue line marked), and the key surface water management structures within the operating quarry boundary, used to collect all sediment-laden water and retain this water within the Possum Brush Quarry site and/or the Pacific Blue Metal property.

Watercourses within the Pacific Blue Metal property are poorly defined and typically do not display an incised channel. The watercourses alignments are also well vegetated along much of the alignment.

For the purposes of quarrying operations, Pacific Blue Metal relies upon three dams, a sump in Extraction Area A and a sediment basin in Extraction Area B (Dam 1), to collect, treat and retain stormwater.

The quarry is dependent on collecting, storing and reusing stormwater as this is the only source of water supply for the development. (Mains water supply is not available to the quarry).

Water conservation on site is through the following water minimization procedures:

- minimising reliance on and use of clean water by harvesting sediment-laden water from disturbed areas for on-site dust suppression and the manufacture of blended products and asphalt;
- dust suppression is undertaken only as required;
- water from truck wash areas is diverted into the retained stormwater system for reuse;
- quarterly inspections of all water supply infrastructure to minimise undetected leaks; and
- upgrade of all sprinklers and hoses to efficient low volume hardware where suitable.

5.8.6 Erosion and Sediment Control

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 18(d)]

5.8.6.1 Erosion and Sediment Control – Water Management Plan

The Erosion and Sediment Control requirements in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 18(d) are addressed in section 10 of the Water Management Plan for the Possum Brush Quarry. The draft Water Management Plan was submitted to the DP&E on 1 August 2016. Comments were received from DP&E by Pacific Blue Metal on 12 September 2016. The draft Water Management Plan (including Erosion and Sediment Control) was revised to address the DP&E comments and resubmitted for approval on 6 October 2016. Pacific Blue Metal was awaiting a response from DP&E re approval of the Water Management Plan at the date of this audit.

All disturbed areas of the "Possum Brush" Quarry are located within the catchment of the Extraction Areas, except for 0.8ha in Extraction Area B. A sediment barrier and rock-lined sill has been constructed at the northern and lowest point of the 0.8ha area to collect sediment generated from that section of the Extraction Area B.

Diversion banks and drainage lines have been established on the 'Possum Brush' Quarry site to prevent the flow of surface water over areas of disturbance (e.g. cleared areas ahead of extraction or soil stockpiles) and surface water from disturbed areas is directed to site dams or settlement basins that allow the settlement of suspended solid material from the water prior to reuse on the site for dust suppression and within the processing plant.

5.8.6.2 Conclusion

Erosion and Sediment Control	Compliance Status	Compliant
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All disturbed areas of the quarry development drain to on-site dams/settlement basins for the management of sediment. Runoff occurs within a "closed" system with no direct discharge to the surrounding environment. The only discharge point from the quarry area is from Environment Protection Licence EPA identified Point 2 at Dam 3, and overflow only occurs under extreme rainfall conditions. The discharged water is monitored during overflows and has demonstrated compliance with Environment Protection Licence 3393 water quality criteria.

5.8.7 Surface Water Quality Criteria and Monitoring

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 18(d)]

[Environment Protection Licence 3393 condition L2.5 and M2.2]

Water quality criteria imposed within Environment Protection Licence 3393 condition L2.5 are pH - 6.5 to 8.5, Total Suspended Solids - <50mg/L, and Oil and Grease - not visible



EPA Water Monitoring Point 2 at Dam 3

Surface water monitoring occurs in accordance with Environment Protection Licence 3393 condition L2.5 and M2.2, from EPA Identification Point 2 (EPL 3393 condition P1.3), at the outlet of Dam 3, during overflow events.

The monitoring point is located at the channel approximately 20m north of the dam spillway and is designated by a permanent sign post.

Dam 3 overflowed on 5 January and 6 June 2016. The surface water quality results from the monitoring of overflow water from Dam 3 compliance with the surface water quality criteria specified in Environment Protection Licence 3393 condition L2.5.

The surface water quality results on 5 January and 6 June 2016 (on the dates of an overflow from Dam 3) were:

- pH values of 7.6 on both occasions,
- Total Suspended Solids of 7mg/l and 32 mg/l, and
- no visible oil and grease observed at the time of sampling.

5.8.7.1 Conclusion

Surface Water Monitoring	Compliance Status	Compliant Ongoing
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The management of surface water at the "Possum Brush" Quarry site provides for the collection of all surface runoff into Dams/ponds/sumps for settlement of sediment and reuse on the site for dust control and process plant activities. The monitoring of any discharge / overflow from Dam 3 has demonstrated that surface water quality results were compliant with the surface water criteria specified in Environment Protection Licence 3393 condition L2.5.

5.8.8 Groundwater

[Consolidated Development Consent 283/97 Schedule 3 condition 17]

Development Consent 283/97 Schedule 3 condition 17 requires that *"in the event that groundwater in excess of negligible quantities is intersected during quarrying operations, the Applicant shall undertake a hydrogeological investigation, in consultation with DPI Water, to the satisfaction of the Secretary"*.

Groundwater had not been intercepted by the "Possum Brush" Quarry excavations at the date of this audit (October 2016) and the Environmental Assessment (2015) concluded that the quarry activities are not expected to intercept groundwater throughout the Stage 2 development of the quarry. If any groundwater is intercepted and discharge from the quarry face or floor become evident over time, an appropriate licence will be obtained and a Groundwater Management Plan developed for the quarry operations.

5.8.8.1 Conclusion

Groundwater	Compliance Status	Not triggered
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The requirements of Consolidated Development Consent 283/97 Schedule 3 condition 17 have not been triggered at the date of this audit (October 2016) as groundwater had not been intercepted by the "Possum Brush" Quarry excavations.

5.9 Landscape and Rehabilitation

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 19 to 23]

5.9.1 Landscape and Rehabilitation Management Plan

[Consolidated Development Consent MOD 4 283/97 Schedule 3 condition 21]

A draft Landscape and Rehabilitation Management Plan prepared to satisfy Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 21 was submitted to the DP&E on 1 August 2016. Comments from DP&E were received by Pacific Blue Metal on 12 September 2016. The draft Landscape and Rehabilitation Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E at the date of this audit. Pacific Blue Metal was awaiting a response from DP&E in relation to the approval at the date of this audit.

5.9.2 Rehabilitation Strategy

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 19]

Pacific Blue Metal commit to a progressive approach to the rehabilitation of disturbed areas within the “Possum Brush” Quarry Site to ensure the revegetation of the terminal benches occurs soon after those benches are created. Benches are to be rehabilitated with vegetation to a level similar to that of the surrounding area to assist in visually shielding the benches and to provide habitat for the long term use of native fauna. Access to the rehabilitated areas is physically restricted through the installation of soil berms and high walls.

The rehabilitation and revegetation of the “Possum Brush” Quarry will be planned to function as a sustainable ecosystem which reflects the natural ecology of the area. The aim of the rehabilitation plan is to provide a safe and stable landform that is compatible with the surrounding landscape and can allow for a range of potential future land uses. Emphasis will continue to be placed upon natural regeneration from soils retained within the Quarry Site and/or the use of endemic seed collected within Pacific Blue Metal’s property.

5.9.3 Rehabilitation Objectives

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 19]

The rehabilitation objectives for the “Possum Brush” Quarry are presented in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 19:

“The Applicant shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be in accordance with the objectives in Table 5.

Rehabilitation objectives

<i>Feature</i>	<i>Objective</i>
<i>Site (as a whole)</i>	<ul style="list-style-type: none"> • <i>Safe, stable and non-polluting.</i> • <i>Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land.</i> • <i>Restored with native, endemic vegetation</i>
<i>Vegetated land</i>	<ul style="list-style-type: none"> • <i>Conserved and enhanced with native, endemic vegetation.</i> • <i>Containing self-sustaining ecosystems.</i>
<i>Surface infrastructure</i>	<ul style="list-style-type: none"> • <i>Decommissioned and removed, unless the Secretary agrees otherwise</i>
<i>Quarry benches and Pit floor</i>	<ul style="list-style-type: none"> • <i>Landscaped and vegetated using native trees and understorey species.</i>
<i>Final Void</i>	<ul style="list-style-type: none"> • <i>Minimise the height and slope of batters.</i> • <i>Minimise the drainage catchment.</i>
<i>Community</i>	<ul style="list-style-type: none"> • <i>Ensure public safety.</i> • <i>Minimise the adverse socio-economic effect of quarry closure.</i>

The Landscape and Rehabilitation Management Plan section 10.2 describes the short, medium and long term measures designed to meet the rehabilitation objectives as described in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 19.

The rehabilitation objectives and key performance outcomes to meet the objectives in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 19 are provided in the Landscape and Rehabilitation Management Plan section 5.

The aim of the rehabilitation objectives and key performance outcomes developed for the Landscape and Rehabilitation Management Plan section 5 are consistent with the format and commitments in the “Possum Brush” Quarry Environmental Management Strategy and the Certified ISO 14001 Environmental Management System elements.

Table 5.9.3: Objectives and Key Performance Outcomes

Objectives	Key Performance Outcomes	Status
To ensure compliance with the criteria of Development Consent 283/97 MOD 4, EPL 3393 and reasonable community expectations.	Compliance with all relevant criteria and reasonable community expectations, as determined in consultation with the relevant government agencies (Landscape and Rehabilitation Management Plan section 13).	Ongoing
To implement appropriate progressive rehabilitation and landscape management and mitigation measures during all stages of the Quarry operation.	All identified rehabilitation and landscape management and mitigation measures are implemented. (Landscape and Rehabilitation Management Plan section 10).	Ongoing
To appropriately manage site preparation works to ensure that suitable material remains for rehabilitation operations during all stages of the Quarry development	Sufficient, viable rehabilitation materials are available for rehabilitation operations during all stages of the Quarry (Landscape and Rehabilitation Management Plan section 9.4).	Ongoing
To ensure that the visual amenity of residences and public vantage points is not unacceptably impacted by Quarry-related activities.	Visual amenity management measures implemented and effective in a timely manner (Landscape and Rehabilitation Management Plan section 11).	Ongoing
To implement an appropriate complaints handling and response protocol	Complaints (if any) handled and responded to in an appropriate manner (Landscape and Rehabilitation Management Plan section 12).	Ongoing
To implement appropriate corrective and preventative actions, if required.	Corrective and preventative actions implemented, if required (Landscape and Rehabilitation Management Plan section 14).	Ongoing
To implement an appropriate incident reporting program, if required.	Incidents (if any) reported in an appropriate manner (Landscape and Rehabilitation Management Plan section 14).	Ongoing

5.9.4 Rehabilitation Activities

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 20]

The rehabilitation of the quarry areas as they become available at the completion of extraction or development activities will occur progressively.

The key rehabilitation activities of benches will involve:

- placement of sufficient (approximately 1-2m) weathered overburden, with emphasis placed in creating a roughened surface to locally contain rainfall;
- subsoil and topsoil will be placed on the overburden material generally to a depth of approximately 0.1-0.15m. Soil will be preferentially transferred from areas stripped of topsoil, however, where necessary, soil will be transferred from stockpiles;
- reliance upon natural regeneration on the substrate on each bench;
- depending on the source of the topsoil, a weed spraying program will be undertaken if required, to ensure weed growth is controlled; and,
- supplementary planting of tube-stock propagated with seed collected within Pacific Blue Metal's property



Rehabilitated completed benches above the Extraction Area A

The final benches within the Extraction Areas A above 120m AHD/135m AHD are being progressively revegetated to minimise the visual impact of the exposed rock faces.

Progressive rehabilitation of completed benches above the Extraction Area A sump has occurred providing a stable well vegetated batter.

5.9.5 Rehabilitation and Conservation Bond

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 22]

The Landscape and Rehabilitation Management Plan prepared to satisfy Consolidated Development Consent 283/97 Schedule 3 condition 21 was submitted to the DP&E on 1 August 2016. Comments from DP&E were received by Pacific Blue Metal on 12 September 2016. The draft Landscape and Rehabilitation Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E at the date of this audit.

Within six (6) months of the approval of the Landscape and Rehabilitation Management Plan, Pacific Blue Metal must lodge a Rehabilitation & Conservation Bond with DP&E to ensure that the management of biodiversity and the rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 19 and the commitments in the Landscape and Rehabilitation Management Plan.

The Rehabilitation & Conservation Bond will be determined by:

- a) calculating the cost of rehabilitating the site taking into account the likely surface disturbance over the next 3 years of quarrying operations and
- b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs.

5.9.4 Conclusion

Landscape and Rehabilitation	Status	Ongoing
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Rehabilitation of the Possum Brush Quarry site will occur when extraction is complete in the Extraction Areas approved under the Consolidated Development Consent 283/97 MOD 4. Progressive rehabilitation of completed benches above the Extraction Area A sump has occurred providing a stable well vegetated batters.

5.10 Transport

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 25 to 29]

5.10.1 Transport Management Plan

[Development Consent 283/97 MOD 4 Schedule 3 condition 28]

A draft Transport Management Plan prepared to satisfy Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 28 was submitted to the DP&E on 1 August 2016. Comments from DP&E were received by Pacific Blue Metal on 12 September 2016. The draft Transport Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting a response from DP&E in relation to approval of the Transport Management Plan at the date of this audit.

This Transport Management Plans has also been prepared in accordance with the requirements of Environment Protection Licence 3393 condition 6.2.

The objectives and key performance outcomes for transport management expressed in the Transport Management Plan are described in the Traffic Management Plan.

Table 5.10.1 Objectives and Key Performance Outcomes

Objectives	Key Performance Outcomes	Status
To ensure compliance with the criteria of DA 283/97, EPL 3393 and reasonable community expectations.	Compliance with all relevant criteria and reasonable community expectations, as determined in consultation with the relevant government agencies (Transport Management Plan section 10).	Compliant Ongoing
To implement appropriate transport management and mitigation measures during all stages of the Project.	All identified transport management and mitigation measures are implemented to the extent required (Transport Management Plan section 9).	Compliant Ongoing
To implement an appropriate complaints handling and response protocol.	Complaints (if any) are handled and responded to in an appropriate and timely manner (Transport Management Plan section 11).	Compliant Ongoing
To implement continual improvement for investigating, implementing and reporting on reasonable and feasible measures to reduce noise.	An appropriate continual improvement program has been implemented (Transport Management Plan section 12).	Compliant Ongoing
To implement an appropriate incident reporting program, if required.	Traffic-related incidents (if any) are reported in an appropriate and action taken in a timely manner (Transport Management Plan section 13).	Compliant Ongoing

5.10.2 Transport Routes

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 25 to 26]

Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 25 requires that: *“No trucks associated with the development (i.e. Possum Brush Quarry) are to travel on Bullocky Way, Tritton Road or the section of Possum Brush Road to the west of the intersection with the quarry access road and other minor roads off this section of road, unless delivering products to a property fronting onto these roads or providing materials for the maintenance of the roads themselves.”* The Transport Management Plan Figure 6 shows the approved travel routes for Pacific Blue Metal trucks transporting product from the “Possum Brush” Quarry.

The Truck Drivers Code of Conduct item 7 addresses this requirement (see Figure 5.10.12).

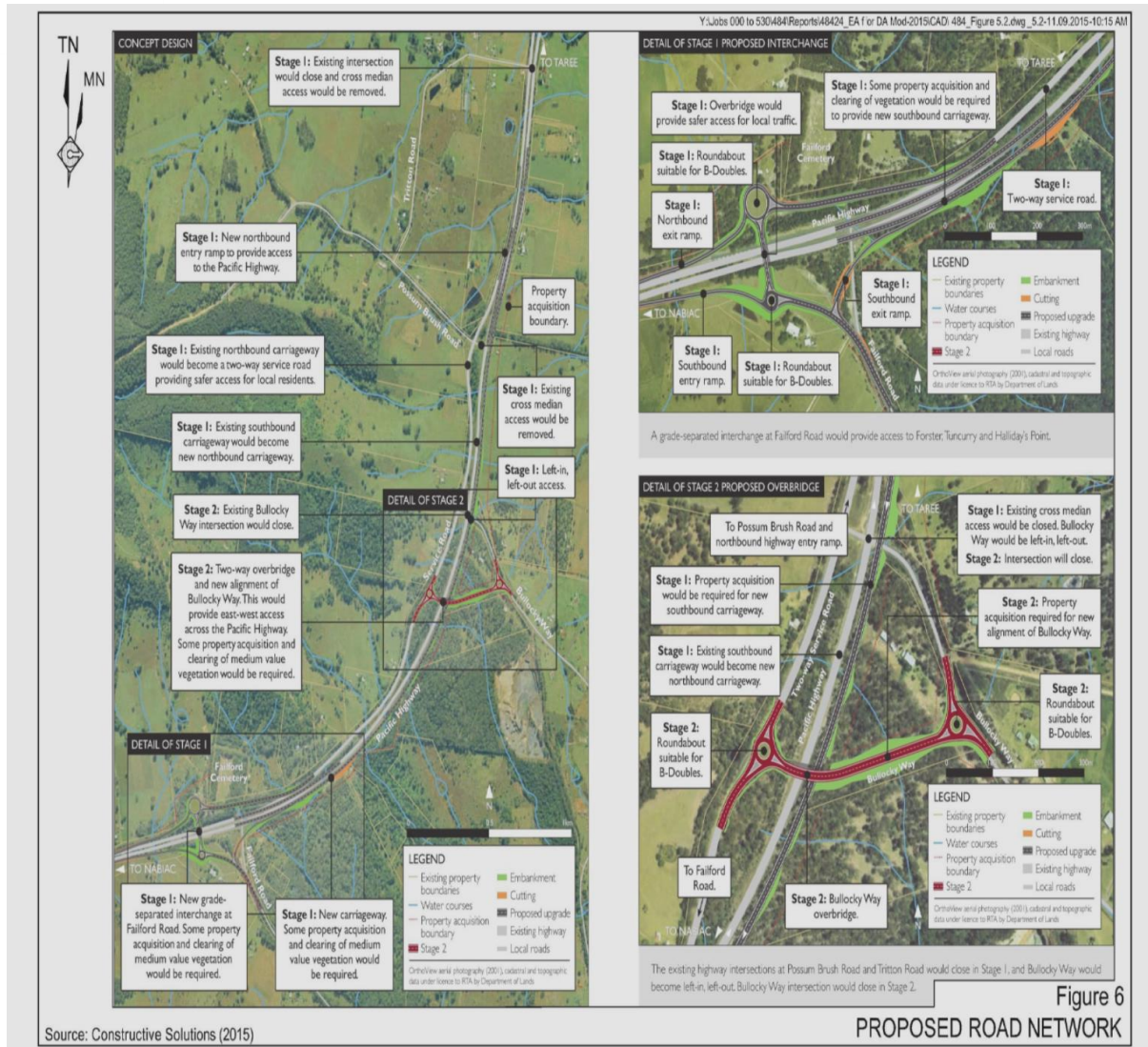


Figure 5.10.12: Transport Routes Identified in the Transport Management Plan section 3.1.

5.10.3 Transport Monitoring

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 29]

Detailed records of the number of truck movements and quantities of quarry products despatched from the “Possum Brush” Quarry are maintained by Pacific Blue Metal and will be reported in the Annual Review for the quarry.

5.10.4 Traffic Management Implementation

The implementation of the Transport Management Plan and Truck Drivers Code of Conduct will apply to all Pacific Blue Metal and contract drivers involved in travel to and from the “Possum Brush” Quarry site. All drivers are inducted prior to accessing the quarry site and required to review and sign a copy of the Driver Code of Conduct before being authorised to transport any quarry product from the site.

The Truck Drivers Code of Conduct requires all drivers to:

	INTEGRATED MANAGEMENT SYSTEM	FORM 69
	PBM INDUCTION LEVEL 2	Issue Date: 01/06/2016 Review Date: 01/06/2018
	TRUCK DRIVERS CODE OF CONDUCT	Version 5.01

1. Pacific Blue Metal operates a Safety Management System to ensure we provide a safe workplace for all employees, subcontractors and visitors.
2. All people at the quarry are subject to the authority of the Quarry Manager &/or Site Supervisor.
3. A copy of your driver's licence must be provided to site office.
4. Quarry entry and exit hours are strictly:
 - > **Monday to Friday** **7:00am – 6.00pm**
 - > **Saturday** **7.00am – 3.00pm**
5. Restrict speed to **70kph** on Possum Brush Road, **40kph** on Quarry Haul Road and **25kph** around the stockpile area.
6. At all times practice safe and quiet driving practices, particularly when driving along Possum Brush Road, where several residential properties are located and a school bus operates along this road morning and afternoon.
7. Trucks are not to travel on Bullocky Way, Tritton Road or west of the Possum Brush Rd / Quarry intersection unless delivering products to a property or a roadworks project on these roads.
8. Limit compression braking on Possum Brush Road and the Quarry Haul Road.
9. All signage must be read and obeyed. Non-compliance with signage instructions may result in your being prohibited from the quarry.
10. If equipped with UHF Radio, switch to Channel 12. If you don't have a radio then **STOP** at the Main Office and a hand held radio will be provided to you.
11. Compulsory UHF radio calls are:
 - > On entering Quarry and near top of the hill: **"Approaching the tight bend & over the top"**
 - > On leaving Quarry and passing the diesel tanks: **"Pass the tanks and up the hill"**
12. Safety footwear must be worn at all times. Hard hats must be worn in the vicinity of the crushing plant when it is operating. Other PPE must be worn when requested.
13. Specifically prohibited are wearing thongs, being under the influence of alcohol or illegal drugs.
14. Smoking is not permitted in any building, plant, machinery, or within 10m of lunchrooms or offices.
15. Be vigilant of plant and equipment on the worksite. **Mobile plant has right of way at all times.**
16. Do not leave the cab of your truck whilst being loaded or in the stockpile area.
17. If on foot do not approach within 20 metres of mobile plant unless the operator of the plant acknowledges they have seen you.
18. Be aware of safe work practices when loading and unloading. Abide by RMS load limits for both gross weight and axle weight limits for the truck you are operating.
19. Ensure loads are properly contained within truck bodies. Clean side rails and tailgates of any debris and cover loads prior to leaving the Quarry.

5.10.5 Conclusion

Traffic Management	Compliance Status	Compliant Ongoing
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The draft Transport Management Plan was revised to address the DP&E comments and submitted to DP&E on 6 October 2016. Traffic management was occurring in accordance with the draft Transport Management Plan at the date of this audit. The Traffic Management Plan will be fully implemented when approved by DP&E.

5.11 Visual Amenity

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 30]

5.11.1 Environmental Assessment of Visual Impacts

The Environmental Assessment concluded that despite the orientation of the various components of the "Possum Brush" Quarry project site operations and the visual controls to be implemented, a number of residences would have varying views of the quarry activities. The views have been minimised as far as practicable and are not considered to be of a magnitude likely to impact significantly on the amenity of the local area or the affected properties.

The visual controls being implemented for the Quarry development will reduce the visibility of the quarry operations (e.g. the establishment of earthen bunds on the western side of the quarry extraction areas with vegetative cover to be established). The vegetation of these bunds, and the revegetation of the project site in general, will ultimately minimise the visual impact providing a screen around much of the proposed quarry operations. Establishment of areas of native vegetation on the 'Possum Brush' site will enhance the visual amenity of the largely cleared paddocks of the 'Possum Brush' property.

5.11.2 Conclusion

<u>Visual Amenity</u>	<u>Status</u>	<u>Compliant Ongoing</u>
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The topography, dense vegetated slopes and visual controls implemented for the 'Possum Brush' Quarry development have reduced the visibility of the quarry operations from residences in the area of the quarry. The establishment of areas of native vegetation to enhance the visual amenity of the largely cleared existing paddocks of the 'Possum Brush' property is also reducing the potential for any impact on the visual amenity of the surrounding area.

5.12 Waste

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 31]

[Environment Protection Licence 3393 condition L3 and O5]

5.12.1 Waste Management

Waste generated by the activities on the "Possum Brush" Quarry site is managed based on the following main principles:

- minimise the quantity of waste generated on site;
- maximise the quantity of waste recycled from site activities; and
- manage waste from the Quarry activities and have the waste collected and removed by licenced waste contractor(s) to approved licenced waste facilities.

The wastes generated within the "Possum Brush" Quarry include:

- wastes collected for recycling on site including steel, waste oil, paper and cardboard, glass and aluminium containers are segregated for collection and transport to waste recovery facilities;
- domestic type wastes (from office and crib room facilities) are placed in approved containers and transported regularly to an approved waste disposal facility;
- sullage wastes and septic wastes from staff amenities are discharged into an approved septic tank with pump-out facilities; and
- water contaminated with petroleum products drains to an oil/water separator in the maintenance workshop recovered water drains to the sedimentation pond system for reuse on site.

- oil- contaminated fluids are drained to a waste oil tank to be collected by a licensed recycling contractor for disposal.

5.12.2 Waste Recycling

[Development Consent 769/2009]

[Environment Protection Licence 3393 condition L3 and O5]

Pacific Blue Metal has approval to import, process and blend waste materials (concrete, bricks, tiles and asphalt) with other quarry products at the "Possum Brush" Quarry under Development Consent 769/2009 granted by the Greater Taree Council on 16 July 2014. (The recycling activities at the Possum Brush Quarry site are also listed as Schedule and Fee Based Activities in EPL 3393 condition A1.1)

Under Development Consent 769/2009 condition 2d and 2e, and Environment Protection Licence 3393 condition L3, Pacific Blue Metal must ensure that any waste received at the premises is assessed and classified in accordance with the EPA's Waste Classification Guidelines. Pacific Blue Metal have developed a Recycling Plant Quality Assurance Program that provides the procedures for receiving, checking, and recording of all loads of wastes received at the "Possum Brush" Quarry site for recycling.

Pacific Blue Metal imported small quantities of concrete for reprocessing and blending with other quarry products. The waste material received for recycling was placed in stockpiles in Area A. A total of 765.36 tonnes was imported until 30 June 2016 with a total of 678.04 tonnes of recycled materials processed and despatched.

5.12.3 Conclusion

<u>Waste Management</u>	<u>Status</u>	<u>Compliant Ongoing</u>
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Waste generated by the activities on the "Possum Brush" Quarry site is managed to minimise the quantity of waste generated on site; maximise the quantity of waste recycled from site activities; and manage waste from the Quarry activities and have the waste collected and removed by licenced waste contractor(s) to approved licenced waste facilities.

During 2015-2016, Pacific Blue Metal import small quantities of concrete for reprocessing and blending with other quarry products in accordance with Development Consent 769/2009 granted by the Greater Taree Council on 16 July 2009. A total of 765.36 tonnes was imported until 30 June 2016 and a total of 678.04 tonnes of recycled materials were processed and despatched during the reporting period.

5.13 Bushfire

[Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 35]

[Landscape and Rehabilitation Management Plan section 9.7]

5.13.1 Bushfire Management

[Landscape and Rehabilitation Management Plan section9.7]

Firefighting equipment is provided within all the mobile equipment / vehicles on site and within designated areas of the "Possum Brush" Quarry. The quarry water cart is equipped with a fire fighting pump and hose designed to assist in the control of small fires. Water from dams is readily available throughout the site for use in fire-fighting if required. Should any large bushfires arise from or encroach onto Pacific Blue Metal's land, including the wildlife corridor, the Rural Fire Service would be contacted to deal with the bushfire.

Pacific Blue Metal has periodic discussions with the local North Coast Fire Service, to discuss fire protection matters including guidance on the need, if any, for controlled burns.

An established Asset Protection Zone (APZ) provides a buffer between the vegetation hazard and the bulk diesel fuel and LPG storage area within the quarry operational area.

5.13.2 Bushfire Hazard

The "Possum Brush" property, has been largely cleared for agricultural grazing activities with some isolated native trees present within the predominantly cleared areas. The bushfire management controls and safeguards, in conjunction with general clearing activities associated with the quarry project will ensure that a low bushfire hazard is maintained on the 'Possum Brush' property.

Based on a Rural Fire Service report (2001), approximately 95% of the Possum Brush' property vegetation is classified as Group 3, Class 26 (F3 Sown Pasture). The remaining vegetation is classified as either Group 3, Class 1 (M1 Open Woodland) or areas meeting the classification of Group 2, Class 6 (M2 Woodland).

The vegetation of the surrounding landholdings is dominated by cleared land for agricultural activities and similar to that of the Possum Brush' property, with the exception of remnant stands of native woodland/forest (particularly to the immediate southeast of the Project Site).

The RFS bushfire attack category is defined as low (i.e. *an expected fire behaviour of "insignificant ember attack, radiation no greater than 14.5kW/m² or is greater than 100m from all woody vegetation"*).

As such the bushfire hazard of the "Possum Brush" Quarry would be low and the proposed "Possum Brush" Quarry unlikely to be significantly influenced by bushfire.

5.14 Community Consultation

5.14.1 Community Consultative Committee

[Consolidated Development Consent 283/97 MOD 4 Schedule 5 condition 6]

A Community Consultative Committee (CCC) was established to provide a forum for the local community to be made aware of and raise potential issues with Quarry operations. The first CCC Meeting was held in the Greater Taree City Council Offices on the 8 September 2010. The subsequent CCC Meetings have occurred approximately each six months and held on-site. Meetings are arranged by the MidCoast Council who provide the Minute Taker. The CCC currently comprises the following representatives.

Councillor David West (Chair)	MidCoast Council
Petula Bowden	MidCoast Council
Arna Fotheringham	MidCoast Council
Charlie Kennett	Pacific Blue Metal Quarry (PBMQ) General Manager
Don Brown	Community Representative
Trudy Taylor	Community Representative
Maree Schubert	MidCoast Council

Two meetings of the Community Consultative Committee were held during the 2015-2016, on 2 September 2015 and 14 December 2015. No major issues have been raised prior to, or following the CCC meetings.

5.14.2 Community Relations

One complaint was received during -2016 regarding squealing brakes from trucks at the intersection of Possum Brush Road and the Pacific Highway on 23 June 2016. The complaint was followed up by Pacific Blue Metal through consultation with the complainant and inspection of truck and dog units braking systems to ensure all

Pacific Blue Metal trucks are mechanically sound and the braking systems working to manufacturers specifications.

Pacific Blue Metal hosted an open day at the "Possum Brush" Quarry on Saturday 29 August 2015 for interested members of the local community to inspect the Quarry operations. A total of 28 persons attended the open day which proved to be an informative day for those who attended and positive feedback was received from most of those in attendance.

6. Conclusions

The Independent Environmental Audit of the Pacific Blue Metal Pty Ltd 'Possum Brush' Quarry Project was conducted in October 2016 to satisfy the requirement of Consolidated Development Consent 283/97 Modification 4, Schedule 5 condition 10.

The 'Possum Brush' Quarry activities were assessed during the Independent Environmental Audit as operating generally in compliance with the consolidated conditions of the Development Consent 283/97 Modification 4. The scope of work for the independent environmental audit of the 'Possum Brush' Quarry was to assess the status of the Possum Brush Quarry operations at the date of the audit (October 2016) against the Consolidated Development Consent 283/97 MOD 4 conditions issued on 1 April 2016 (i.e. 6 months following the issue of the Consolidated Development Consent 283/97 MOD 4 conditions)

The Environmental Management Plans required to satisfy Consolidated Development Consent 283/97 Modification 4 conditions have been prepared and were submitted to the Department of Planning and Environment for approval 1 August 2016. Comments were received by Pacific Blue Metal from DP&E on 12 September 2016. The draft Management Plans were revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting a response in relation to approval at the date of this audit.

An Administrative Non-compliance was identified in relation to the noise monitoring reports:

The noise monitoring of the quarry operations at the nominated receivers, demonstrated compliance with the Environment Protection Licence 3393 condition L4.1 and Consolidated Development Consent 283/97 MOD 4 Schedule 3 condition 1, with the "Possum Brush" Quarry operations noise ranging from inaudible to 1dB(A) below the noise assessment criteria for both quarrying and transport operations.

The Spectrum Acoustics reports do not describe the location noise monitoring equipment during the monitoring period, in accordance with the requirements in EPL condition L4.6 and Development Consent 283/97 Appendix 3 Noise Compliance Assessment.

Administrative Non-Compliance

Noise Recommendation:

It is recommended that Spectrum Acoustics report the location noise monitoring equipment during the monitoring period in future reports, in accordance with the requirements in EPL condition L4.6 and provide comment on the requirements in Development Consent 283/97 Appendix 3 Noise Compliance Assessment.

Attachments

Attachment A Consolidated Development Consent 283/97 MOD 4

Attachment B Development Consent 1127/2005 - Asphalt Plant

Attachment C Development Consent 769/2009 – Recycling

Attachment D Environment Protection Licence No. 3393

Appendix 1 Agency Consultation Correspondence

Independent Environmental Audit October 2016

Possum Brush Quarry

Assessment of compliance with the intent of the Development Consents and Environment Protection Licence conditions are expressed in these Attachments to the Independent Environmental Audit as:

Assessment Status	Criteria Description
Compliant	Where verifiable evidence has been collected to demonstrate that the intent of the elements of the conditions of the regulatory approval and appropriateness of implementation against the Consolidated Development Consent 283/97 has occurred.
Compliant Ongoing	The intent and specific requirements of the condition have been met and the requirements are an ongoing requirement for the operation of Possum Brush Quarry project.
Administrative Non-compliance	A technical non-compliance with a regulatory approval that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date, failed monitor or late monitoring session). This would not apply to performance-related aspects (e.g. exceedance of a noise limit) or where a requirement had not been met at all (e.g. noise management plan not prepared and submitted for approval)
Non-compliance	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit the risk level of the non-compliance will be assessed in accordance with the Independent Audit Guideline section 4.1 (DP&E October 2015).
Non-Compliant – Low Risk	Non-compliance with a condition of approval with the potential for moderate environmental consequences, but is unlikely to occur, or, potential for low environmental consequence but is likely to occur.
Non-Compliant – Moderate Risk	Non-compliance with a condition of approval with the potential for serious environmental consequences but unlikely to occur, or, potential for moderate environmental consequence but likely to occur.
Non-Compliant – High Risk	Non-compliance of a condition of approval with the potential for significant environmental consequences, regardless of the likelihood of occurrence.
Not verified	Where the auditor has not been able to collect sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit.
Not active / Not triggered	A regulatory approval requirement / condition has an activation or timing that had not been triggered at the date of the audit, therefore a determination of compliance could not be made.
Noted	A statement or fact where no assessment of compliance is required.

Attachment A - Consolidated Development Approval DA 283/97 MOD 4

DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	SCHEDULE 2 ADMINISTRATIVE CONDITIONS			
	OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT			
2/1	In addition to meeting the specific performance criteria established under this consent, the Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.		Inspection of the operations and activities undertaken on Possum Brush Quarry site during this Independent Environmental Audit (i.e. October 2016) indicated that the project was meeting the performance criteria established in the consent conditions. Management measures to prevent or minimise any material harm to the environment were observed to have been implemented.	Compliant Ongoing
	TERMS OF CONSENT			
2/2	The Applicant shall carry out the development generally in accordance with the EIS, <ul style="list-style-type: none"> EA (Mod 1), EA (Mod 2), EA (Mod 3) and EA (Mod 4). 	<ul style="list-style-type: none"> Environmental Assessment, (Mod 1), 18 Jul 2002 Environmental Assessment (Mod 2), 15 Aug 2006 Environmental Assessment (Mod 3), Nov 2012 Environmental Assessment (Mod 4) Nov 2015 	The Possum Brush Quarry has been developed generally in accordance with the environmental assessments prepared for the project.	Compliant Ongoing
2/3	The Applicant shall carry out the development in accordance with the Development Layout Plans and the conditions of this consent.	<ul style="list-style-type: none"> Development Layout Plan in Appendix 1, Development Consent 287/97 MOD 4. 	The development of the Possum Brush Quarry is progressing generally in accordance with Development Layout Plan in Appendix 1 to this Development Consent 287/97 MOD 4.	Compliant Ongoing
2.4	If there is any inconsistency between the documents identified in condition 2, the more recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.		No inconsistency between the documents listed in Schedule 2 condition 2 was noted that would affect the development of the quarry.	Noted
2/5	The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of: <ul style="list-style-type: none"> (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents); (b) any reviews, reports or audits commissioned by the Department regarding compliance with this consent; and (c) the implementation of any actions or measures contained in these documents. 			Noted
	LIMITS ON CONSENT			
	Quarrying Operations			
2/6	The Applicant may carry out quarrying operations on the site until 31 March 2046.		"Possum Brush" Quarry operations on the site are approved to be undertaken until 31 March 2046.	Noted

Independent Environmental Audit October 2016

Possum Brush Quarry

DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance										
	<i>Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of the Secretary. Consequently, this consent will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out satisfactorily</i>													
2/7	The Applicant shall not extract extractive materials below a level of 45 metres AHD.		Observation during the audit site inspection indicated that no extraction of materials from the "Possum Brush" Quarry has occurred below 45m AHD.	Compliant Ongoing										
2/8	The Applicant shall not extract more than 16.2 million tonnes of extractive material from the site under this consent.		Extracted material from site had not exceeded 16.2Mt at the date of this audit (October 2016).	Compliant										
2/9	The Applicant shall not transport more than 500,000 tonnes of quarry products from the site in any calendar year. <i>Note: Extractive material provided to Council free of charge for roads works on Possum Brush Road in accordance with condition 19 of Schedule 2 shall be excluded from the limit specified above.</i>		Quarry products transported from the "Possum Brush" Quarry have not exceeded 500,000tpa.	Compliant Ongoing										
	Quarry Product Transport													
2/10	The Applicant shall ensure that: (a) no more than 36 truck movements occur per hour; and (b) no more than 420 truck movements occur per day. <i>Note: Truck movements mean heavy vehicle one-way trips, either entering or leaving the site, including trucks associated with the asphalt and recycling activities.</i>	<ul style="list-style-type: none"> Annual Review 2015-2016 section 2.7 	The records of the total number of truck movement travelling to and from the quarry transporting quarry products from the "Possum Brush" Quarry have confirmed that less than 36 truck movements per hour and less than 420 truck movements per day have occurred during April to October 2016.	Compliant										
	HOURS OF OPERATION													
2/11	<p>The Applicant shall comply with the operating hours in Table 1. <i>Table 1: Operating Hours</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Activity</th> <th style="width: 70%;">Operating Hours</th> </tr> </thead> <tbody> <tr> <td>Extraction and processing operations</td> <td>6:30 am to 6 pm Monday to Friday 7 am to 3 pm Saturday</td> </tr> <tr> <td>Maintenance operations</td> <td>6 am to 9 pm Monday to Friday 6 am to 9 pm Saturday</td> </tr> <tr> <td>Loading and dispatch of laden trucks</td> <td>6:30 am to 6 pm Monday to Friday 7 am to 3 pm Saturday</td> </tr> <tr> <td>Blasting</td> <td>9 am and 3 pm Monday to Friday. No blasting is allowed on Saturdays, Sundays or public holidays, or at any other time without the written approval of the Secretary.</td> </tr> </tbody> </table>	Activity	Operating Hours	Extraction and processing operations	6:30 am to 6 pm Monday to Friday 7 am to 3 pm Saturday	Maintenance operations	6 am to 9 pm Monday to Friday 6 am to 9 pm Saturday	Loading and dispatch of laden trucks	6:30 am to 6 pm Monday to Friday 7 am to 3 pm Saturday	Blasting	9 am and 3 pm Monday to Friday. No blasting is allowed on Saturdays, Sundays or public holidays, or at any other time without the written approval of the Secretary.	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3 condition 9, 12 Dec 2012 EPL 3393, condition L6 	<p>The "Possum Brush" Quarry has operated in accordance with the operating hours specified in Table 1.</p> <p>No requests for activities to be conducted outside of the specified hours have been requested by Pacific Blue Metal from the Secretary of DP&E.</p>	Compliant
Activity	Operating Hours													
Extraction and processing operations	6:30 am to 6 pm Monday to Friday 7 am to 3 pm Saturday													
Maintenance operations	6 am to 9 pm Monday to Friday 6 am to 9 pm Saturday													
Loading and dispatch of laden trucks	6:30 am to 6 pm Monday to Friday 7 am to 3 pm Saturday													
Blasting	9 am and 3 pm Monday to Friday. No blasting is allowed on Saturdays, Sundays or public holidays, or at any other time without the written approval of the Secretary.													


Independent Environmental Audit October 2016

Possum Brush Quarry

DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	<p>The following activities may be carried out on the site outside the hours specified in Table 1:</p> <p>(a) delivery or dispatch of materials as requested by Police or other authorities; and</p> <p>(b) emergency work to avoid the loss of lives, property and/or to prevent environmental harm.</p> <p>In such circumstances, the Applicant shall notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter. The Applicant shall keep a record of all such events and report on the same in the Annual Review (see condition 9 of Schedule 5).</p>	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3 condition 10, 12 Dec 2012 EPL 3393 condition L6.2 – <i>Extension of Hours of Operation</i> 		
	STRUCTURAL ADEQUACY			
2.12	<p>The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> <i>Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; and</i> <i>Part 8 of the EP&A Regulation sets out the requirements for the certification of the development or project.</i> 	<ul style="list-style-type: none"> Construction Certificate, No. 322/2015/CC, 25 May 2015 Occupation Certificate, 9 Sep 2015 	The on-site laboratory was built in accordance with Construction Certificate 322/2015/CC and was granted an Occupation Certificate by the Greater Taree City Council on 9 September 2015.	Compliant
	DEMOLITION			
2/13	<p>The Applicant shall ensure that all demolition work is carried out in accordance with <i>Australian Standard AS 2601-2001: The Demolition of Structures</i>, or its latest version.</p>	<ul style="list-style-type: none"> <i>Australian Standard AS 2601-2001: The Demolition of Structures</i> 	No demolition works were carried out on the "Possum Brush" Quarry site between April and October 2016.	Noted
	PROTECTION OF PUBLIC INFRASTRUCTURE			
2/14	<p>The Applicant shall:</p> <p>(a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and</p> <p>(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. <i>Note: This condition does not apply to damage to roads caused as a result of general road usage.</i></p>		No public infrastructure has been damaged or required relocation during the "Possum Brush" Quarry activities in 2016.	Not activated
	OPERATION OF PLANT AND EQUIPMENT			
2/15	<p>The Applicant shall ensure that all the plant and equipment used at the site is maintained and operated in a proper and efficient manner.</p>		The plant and equipment observed at the "Possum Brush" Quarry site during the audit inspection appeared to be maintained and operated in a proper and efficient manner.	Compliant Ongoing
	IDENTIFICATION OF APPROVED LIMITS OF EXTRACTION			

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance								
2/16	Prior to 30 September 2016, unless otherwise agreed by the Secretary, the Applicant shall: (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the development area (see Appendix 1); and (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.	<ul style="list-style-type: none"> Survey Plan – Possum Brush Quarry for Pacific Blue Metal, 2016 Development Consent 283/97 MOD 3, condition 49, 12 Dec 2012 	<p>A survey plan of the boundaries of the limits of extraction for the Possum Brush Quarry was prepared and a copy of the survey plan submitted to the DP&E on 17 March 2015 and 12 September 2016.</p> 	Compliant								
2/17	While quarrying operations are being carried out, the Applicant shall ensure that these boundaries are clearly marked at all times in a manner that allows operating staff and inspecting officers to clearly identify the approved limits of extraction.	<ul style="list-style-type: none"> Development Consent 283/97 MOD condition 48, 12 Dec 2012 	<p>Boundary markers were observed to be in place along the limits of the areas for extraction on the “Possum Brush” Quarry site.</p>	Compliant								
PRODUCTION DATA												
2/18	The Applicant shall: (a) provide annual quarry production data to DRE using the standard form for that purpose; and (b) include a copy of this data in the Annual Review (see condition 9 of Schedule 5).	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3 condition 18 and 19, 12 Dec 2012 Return for Extractive Materials (Form S1) 1 July 2014 to 30 June 2015, DPI, 8 Oct 2015 Annual Review 2015-2016, Appendix 5 	<p>Quarry production data for “Possum Brush” Quarry is completed on the DRE standard Form S1 and submitted to the DPI/DRE annually. A copy of the quarry production data was included in the 2015-2016 Annual Review Appendix 5.</p>	Compliant								
CONTRIBUTIONS TO COUNCIL												
2/19	The Applicant shall provide extractive material to Council free of charge for ongoing maintenance of Possum Brush Road between the quarry entrance and the Pacific Highway.	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3, condition 34, 12 Dec 2012 	No asphalt or extractive material from the “Possum Brush” Quarry was requested by the Council for maintenance of Possum Brush Road between April and October 2016.	Not activated								
2/20	The Applicant shall pay to Council a monthly contribution for the maintenance of Possum Brush Road between the quarry entrance and the Pacific Highway. The rate of the contribution for all quarry products transported from the site is: (a) 7.5 cents per tonne for five years from 25 May 2008; (b) 10 cents per tonne for the next five years from 25 May 2013; and (c) further increases indexed annually to changes in the Consumer Price Index (Road & Bridge Construction) (NSW Index) from 25 May 2018 and thereafter.	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3, condition 36, 12 Dec 2012 Remittances to Council, 2012 to 2016 Records of Monthly Contributions to Council for Maintenance of Possum 	<p>A record of monthly product tonnages transported from the “Possum Brush” Quarry entrance to the Pacific Highway intersection has been provided to Council.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">1 July to 30 June - Levy Period</th> <th style="text-align: center;">Annual Contribution</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2013-2014</td> <td style="text-align: right;">\$ 24 882.95</td> </tr> <tr> <td style="text-align: center;">2014-2015</td> <td style="text-align: right;">\$ 22 628.55</td> </tr> <tr> <td style="text-align: center;">2015-2016</td> <td style="text-align: right;">\$ 31 853.91</td> </tr> </tbody> </table>	1 July to 30 June - Levy Period	Annual Contribution	2013-2014	\$ 24 882.95	2014-2015	\$ 22 628.55	2015-2016	\$ 31 853.91	Compliant Ongoing
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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance																							
		Brush Road, Jul 2015 to Jun 2016	Payment of 10 cents per tonne has been submitted to the Council in accordance with the requirement of Schedule 2 condition 20(b).																								
SCHEDULE 3 - ENVIRONMENTAL PERFORMANCE CONDITIONS																											
NOISE																											
Noise Impact Assessment Criteria																											
3/1	<p>The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land.</p> <p><i>Table 2: Noise criteria dB(A)</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Receiver</th> <th style="text-align: center;">Day/Evening</th> <th colspan="2" style="text-align: center;">Night</th> </tr> <tr> <th style="text-align: center;"><i>LAeq(15 min)</i></th> <th style="text-align: center;"><i>LA1(max)</i></th> <th style="text-align: center;"><i>x</i></th> </tr> </thead> <tbody> <tr> <td>5 St Peters Close</td> <td style="text-align: center;">39</td> <td style="text-align: center;">39</td> <td style="text-align: center;">45</td> </tr> <tr> <td>175 Possum Brush Rd</td> <td style="text-align: center;">38</td> <td style="text-align: center;">38</td> <td style="text-align: center;">45</td> </tr> <tr> <td>55 Possum Brush Road</td> <td style="text-align: center;">37</td> <td style="text-align: center;">37</td> <td style="text-align: center;">45</td> </tr> <tr> <td>All other residences</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> <td style="text-align: center;">45</td> </tr> </tbody> </table> <p><i>Note: Receiver locations are shown in Appendix 2.</i></p> <p>Noise generated by the development is to be measured in accordance with the relevant requirements of the <i>NSW Industrial Noise Policy</i> (as may be updated from time-to-time). Appendix 3 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria. However, these criteria do not apply if the Applicant has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.</p>	Receiver	Day/Evening	Night		<i>LAeq(15 min)</i>	<i>LA1(max)</i>	<i>x</i>	5 St Peters Close	39	39	45	175 Possum Brush Rd	38	38	45	55 Possum Brush Road	37	37	45	All other residences	35	35	45	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3, condition 21, 12 Dec 2012 Possum Brush Quarry Noise Monitoring – Sep 2015, Spectrum Acoustics, 13 Oct 2015 Possum Brush Quarry Noise Monitoring – Oct 2015, Spectrum Acoustics, 23 Oct 2015 	<p>Noise monitoring conducted by Spectrum Acoustics for daytime on 17 September 2015, night-time on 20 October 2015 and evening on 24 November 2015 demonstrated compliance with the noise criteria in Development Consent 283/97 MOD 4 Schedule 3 condition 4 and EPL 3393 condition L4.</p> <p>The EPL 3393 Condition M7.1(b) requires attended noise monitoring to be undertaken <i>annually beginning 1 January each year</i> and to <i>occur at a time when noise levels are expected to be highest (i.e. generally winter conditions)</i>.</p> <p>The Noise Management Plan prepared for the Possum Brush Quarry and submitted to the Secretary of DP&E on 6 October 2016 for approval, nominates noise monitoring to be undertaken on an annual basis. A request to was made to the Secretary of DP&E on 6 October 2016 to consider annual monitoring of noise emissions.</p> <p>Pacific Blue Metal, commissioned Spectrum Acoustics in 2015 to conduct attended noise monitoring to satisfy EPL 3393 conditions L4 and M7. The Noise Monitoring Reports were supplied to the EPA with the EPL Annual Return in accordance with EPL 3393 condition R4.1.</p>	Compliant
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Operating Conditions																											
3/2	<p>The Applicant shall:</p> <p>(a) implement best practice management to minimise the operational and road transportation noise of the development;</p> <p>(b) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 3);</p> <p>(c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent; and</p> <p>(d) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent,</p>	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3, condition 21 and 22, 12 Dec 2012 Possum Brush Quarry Noise Monitoring – Sep 2015, Spectrum Acoustics, 13 Oct 2015 Possum Brush Quarry Noise Monitoring – Oct 2015, Spectrum Acoustics, 23 Oct 2015 	<p>The operations of “Possum Brush” Quarry are managed to control or limit noise from the quarry activities, particularly noise from exhaust brakes on trucks departing the Quarry.</p> <p>(a) Noise Management Plan section 10 addresses minimisation of noise from operations and trucks movements;</p> <p>(b) The stability conditions nominated in Appendix 3 rarely occur during the approved operating hours given the Quarry’s close proximity to the coast.</p> <p>(c) Noise monitoring is conducted in accordance with the requirements of EPL 3393 conditions.</p>	Compliant Ongoing																							

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Possum Brush Quarry

DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	to the satisfaction of the Secretary.	<ul style="list-style-type: none"> Letter to DP&E re Consideration of Quarterly Noise Monitoring, 6 Oct 2016 EPL 3393 condition L4 Noise Limits EPL 3393 condition M7.1 Requirement to Monitor Noise Noise Management Plan, 6 Oct 2016 	(d) Monitoring data is assessed from each noise monitoring event for compliance with the noise assessment criteria. Any modification to any item of equipment that may affect the noise emissions from the quarry operations would be assessed following the noise monitoring to ensure that the noise assessment criteria are not exceeded.	
	Noise Management Plan			
3/3	<p>The Applicant shall prepare a Noise Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:</p> <p>(a) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;</p> <p>(b) describe the measures that would be implemented to ensure:</p> <ul style="list-style-type: none"> compliance with the noise criteria in this consent; best practice management is being employed; and the noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply (see Appendix 3); <p>(c) describe the proposed noise management system; and</p> <p>(d) include a monitoring program that will be put in place to measure noise from the development against the noise criteria in Table 2, and which evaluates and reports on the effectiveness of the noise management system on site; and</p> <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	<ul style="list-style-type: none"> Letter from DP&E re Extension of Date for Submission of the Noise Management Plan, 30 June 2016 Noise Management Plan, 6 October 2016 	<p>A draft Noise Management Plan was submitted to the DP&E on 1 August 2016 and comments were received by Pacific Blue Metal on 12 September 2016. The draft Noise Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E in relation to approval of this Plan, at the date of this audit. The Noise Management Plan includes:</p> <p>(a) the draft Noise Management Plan was submitted to the Secretary for approval on 1 August 2016 (submission date extension granted by DP&E on 30 June 2016);</p> <p>(b) measures to be implemented:</p> <ul style="list-style-type: none"> section 12 compliance with the noise criteria in this consent; section 6 addresses best practice management; and sections 8 and 10.5 address minimisation of noise impacts from the Possum Brush Quarry during meteorological conditions under which the noise criteria in this consent do not apply (see Appendix 3); <p>(c) section 10 outlines the proposed noise management system;</p> <p>(d) section 11 describes the proposed monitoring program to measure noise from the Possum Brush Quarry against the noise criteria in Table 2.</p>	Compliant (DP&E Approval in Progress)
	Blasting			
	Blasting Impact Assessment Criteria			

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance																					
3/4	<p>The Applicant shall ensure that blasting on site does not cause any exceedance of the criteria in Table 3. <i>Table 3: Blasting criteria</i></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr style="background-color: #76b82a; color: white;"> <th style="width: 15%;">Location</th> <th style="width: 15%;">Airblast overpressure dB(LinPeak)</th> <th style="width: 15%;">Ground vibration (mm/s)</th> <th style="width: 55%;">Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Any residence on privately owned land</td> <td style="text-align: center;">120</td> <td style="text-align: center;">10</td> <td style="text-align: center;">0%</td> </tr> <tr> <td></td> <td style="text-align: center;">115</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5% of the total number of blasts over a period of 12 months</td> </tr> </tbody> </table> <p>However, these criteria do not apply if the Applicant has a written agreement with the relevant owner to exceed the limits in Table 3, and the Applicant has advised the Department in writing of the terms of this agreement.</p>	Location	Airblast overpressure dB(LinPeak)	Ground vibration (mm/s)	Allowable exceedance	Any residence on privately owned land	120	10	0%		115	5	5% of the total number of blasts over a period of 12 months	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3 condition 14, 12 Dec 2012 EPL 3393 condition L5 Annual Review 2015-2016 section 2.11 	<p>All blasts at the Possum Brush Quarry have been monitored and the results indicated compliance with the blasting criteria. Six blasting events occurred between July 2015 and June 2016 and blast monitoring results exhibited the following range of results:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #76b82a; color: white;"> <th style="width: 15%;">Monitoring Location</th> <th style="width: 35%;">Airblast Results dB(L)</th> <th style="width: 50%;">Ground Vibration mm/s</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">R1</td> <td style="text-align: center;">98.8 to 105.5</td> <td style="text-align: center;">1.00 to 2.66</td> </tr> <tr> <td style="text-align: center;">R2</td> <td style="text-align: center;">111.3 to 105.5</td> <td style="text-align: center;">0.24 to 0.67</td> </tr> </tbody> </table>	Monitoring Location	Airblast Results dB(L)	Ground Vibration mm/s	R1	98.8 to 105.5	1.00 to 2.66	R2	111.3 to 105.5	0.24 to 0.67	Compliant
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R1	98.8 to 105.5	1.00 to 2.66																							
R2	111.3 to 105.5	0.24 to 0.67																							
	Blasting Frequency																								
3/5	<p>The Applicant may carry out a maximum of 2 blasts per calendar month, unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of the quarry or workers on site.</p>	<ul style="list-style-type: none"> Annual Review 2015-2016 Blast Reports, Precision Drill and Blast P/L, 2014 to 2016 	<p>Blasts at "Possum Brush" Quarry have not exceeded 2 blasts per month during April to October 2016. Only six blasts were initiated in 1 July 2015 to 30 June 2016.</p>	Compliant Ongoing																					
	Operating Conditions																								
3/6	<p>During blasting operations, the Applicant shall:</p> <p>(a) implement best management practice to:</p> <ul style="list-style-type: none"> protect the safety of people and livestock in the areas surrounding blasting operations; protect public or private infrastructure/property in the surrounding area from damage from blasting operations; and minimise the dust and fume emissions of blasting; <p>(b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and</p> <p>(c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary.</p>	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3 condition 17, 12 Dec 2012 	<p>(a) Pacific Blue Metal and its blasting contractor adopt best management practices and rely on a robust site laws, developed on results of previous blasts.</p> <p>(b) Landowners / occupiers of six properties surrounding the "Possum Brush" Quarry were notified of impending blasting times:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #76b82a; color: white;"> <th style="width: 50%;">Name</th> <th style="width: 50%;">Address</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Mr B Kelliher</td> <td style="text-align: center;">Taree</td> </tr> <tr> <td style="text-align: center;">M&D Claythorn</td> <td style="text-align: center;">175 Possum Brush Rd</td> </tr> <tr> <td style="text-align: center;">Mrs T Taylor</td> <td style="text-align: center;">395 Possum Brush Rd</td> </tr> <tr> <td style="text-align: center;">Mr G Whitton</td> <td style="text-align: center;">271 Possum Brush Rd</td> </tr> <tr> <td style="text-align: center;">Mr B Winn</td> <td style="text-align: center;">5 St Peters Close</td> </tr> <tr> <td style="text-align: center;">Mr D Brown</td> <td style="text-align: center;">7 St Peters Close</td> </tr> </tbody> </table> <p>(c) All blasts are monitored at 5 St Peters Close (Residence R1) and 175 Possum Brush Road (Residence R2).</p>	Name	Address	Mr B Kelliher	Taree	M&D Claythorn	175 Possum Brush Rd	Mrs T Taylor	395 Possum Brush Rd	Mr G Whitton	271 Possum Brush Rd	Mr B Winn	5 St Peters Close	Mr D Brown	7 St Peters Close	Compliant Ongoing							
Name	Address																								
Mr B Kelliher	Taree																								
M&D Claythorn	175 Possum Brush Rd																								
Mrs T Taylor	395 Possum Brush Rd																								
Mr G Whitton	271 Possum Brush Rd																								
Mr B Winn	5 St Peters Close																								
Mr D Brown	7 St Peters Close																								
3/7	<p>Upon written request of the owner of any existing dwelling house located within 1.25 kilometres of the development, the Applicant shall arrange at its own costs, for the inspection by a technically qualified person agreed to by both parties, to record the material</p>	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3 condition 16, 12 Dec 2012 	<p>No requests for a property inspection reports have been received from any owner of an existing dwelling house located within 1.25 kilometres of the "Possum Brush" Quarry.</p>	Not activated																					

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	<p>condition of any existing dwelling house. The Applicant shall supply a copy of any inspection report, certified by the person who undertook the inspection, to the relevant property owner within fourteen days of receipt of the report.</p> <p>Should the inspection report find that structural damage to the dwelling house has occurred as a result of blasting at the quarry, the owner of that dwelling house may request the Applicant to carry out works to remedy or mitigate that damage. Such works shall be carried out at the Applicant's expense and shall be agreed to by the owner of the dwelling house.</p> <p>In the event of a dispute between the Applicant and the owner of an existing dwelling house arising from the requirements of this condition, the Applicant shall refer the matter for the consideration and decision of the Secretary.</p>			
	Blast Management Plan			
3/8	<p>The Applicant shall prepare a Blast Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:</p> <p>(a) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;</p> <p>(b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent;</p> <p>(c) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent;</p> <p>(d) include community notification procedures for the blasting schedule; and</p> <p>(e) include a protocol for investigating and responding to complaints.</p> <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3 condition 17, 12 Dec 2012 Letter from DP&E re Extension of Date for Submission of the Noise Management Plan, 30 June 2016 Blast Management Plan, 6 Oct 2016 	<p>A draft Blast Management Plan was submitted to the DP&E on 1 August 2016 and comments were received by Pacific Blue Metal on 12 September 2016. The draft Blast Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E in relation to approval of this Plan, at the date of this audit.</p> <p>The Blast Management Plan includes:</p> <p>(a) the Blast Management Plan was submitted to the Secretary for approval on 1 August 2016 (submission date extension granted by DP&E on 30 June 2016);</p> <p>(b) section 10 describes measures implemented to ensure compliance with the blast criteria and operating conditions of this Development Consent 283/97 MOD 4;</p> <p>(c) section 11 describes the monitoring program for evaluating and reporting on compliance with the blasting criteria;</p> <p>(d) section 10.1.1 outlines community notification procedures for the blasting schedule; and</p> <p>(e) section 10.2.2 outlines the protocol for investigating and responding to blast complaints.</p>	Compliant (Approval in Progress)
	AIR QUALITY			
	Air Quality Impact Assessment Criteria			
3/9	<p>The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria listed in Tables 4 at any residence on privately-owned land.</p> <p><i>Table 4: Air quality criteria</i></p>	<ul style="list-style-type: none"> Development Consent 283/97 MOD 3 conditions 54 and 55, 12 Dec 2012 	<p>Dust generation mitigation measures have been implemented for the "Possum Brush" Quarry operations and the practices have been effective in controlling dust generation and dispersion from the site.</p>	Compliant Ongoing

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Possum Brush Quarry

DA	Consolidated Development Approval 283/97 Condition			Verification	Comments	Compliance
	<i>Pollutant</i>	<i>Averaging Period</i>	<i>Criterion</i>		A water truck is used for wetting down the internal quarry roads and water sprays are available for dust control on stockpiles and the process plant area.	
	Particulate matter < 10 µm (PM ₁₀)	Annual	^{a,d} 30 µg/m ³			
		24 hour	^b 50 µg/m ³			
	Total suspended particulates (TSP)	Annual	^{a,d} 90 µg/m ³			
	^c Deposited dust	Annual	^b 2 g/m ² /mth	^{a,d} 4 g/m ² /mth		
	<p><i>Notes for Table 4:</i></p> <p><i>a. Cumulative impact (ie increase in concentrations due to the development plus background concentrations due to all other sources).</i></p> <p><i>b. Incremental impact (ie incremental increase in concentrations due to the development on its own, with zero allowable exceedances of the criteria over the life of the development).</i></p> <p><i>c. Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.</i></p> <p><i>d. Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, or any other activity agreed to by the Secretary.</i></p>					
	Operating Conditions					
3/10	<p>The Applicant shall:</p> <p>(a) implement best practice management to minimise the dust emissions of the development;</p> <p>(b) carry out periodic air quality monitoring to determine whether the development is complying with the relevant conditions of this consent;</p> <p>(c) regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent;</p> <p>(d) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d under Table 4); and</p> <p>(e) minimise the area of surface disturbance and maximise progressive rehabilitation of the site, to the satisfaction of the Secretary.</p>			<ul style="list-style-type: none"> • Development Consent 283/97 MOD 3 conditions 54 and 55, 12 Dec 2012 • Air Quality Management Plan, Oct 2016 	<p>(a) Use of a water truck for wetting down the quarry roads and water sprays are available for dust control on stockpiles and the process plant area.</p> <p>(b) A monitoring program for deposited dust is included in the Air Quality Management Plan sections 10 to 15 for implementation in late 2016 for a period of at least 12 months to verify the low level of impact of Quarry operations on the surrounding air quality;</p> <p>(c) assessment of the dust dispersion and potential impact will be conducted following the deposited dust monitoring program outlined above;</p> <p>(d) dust generating activities are suspended in exposed areas of the Quarry during periods of high winds, (particularly from the west-southwest to northwest quadrant);</p> <p>(e) The areas of disturbance are currently approaching the maximum approved for the quarry development. Progressive rehabilitation will commence as individual terminal benches are completed</p>	Compliant Ongoing

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	Quarry-owned Land			
3/11	<p>The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 4 at any occupied residence on quarry-owned land unless:</p> <p>(a) the tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this consent; and</p> <p>(b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice, to the satisfaction of the Secretary.</p>	<ul style="list-style-type: none"> Development Consent 283/97 Schedule 4 	There are no residences on Pacific Blue Metal "Possum Brush" Quarry land.	Not applicable
	Air Quality Management Plan			
3/12	<p>The Applicant shall prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:</p> <p>(a) be submitted to the Secretary for approval by within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;</p> <p>(b) describe the measures that would be implemented to ensure:</p> <ul style="list-style-type: none"> compliance with the relevant conditions of this consent; <input type="checkbox"/> best practice management is being employed; and the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events; <p>(c) describe the proposed air quality management system; and</p> <p>(d) include an air quality monitoring program that:</p> <ul style="list-style-type: none"> is capable of evaluating the performance of the development; includes a protocol for determining any exceedances of the relevant conditions of consent; effectively supports the air quality management system; and evaluates and reports on the adequacy of the air quality management system. <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	<ul style="list-style-type: none"> Letter from DP&E re Extension of Date for Submission of the Noise Management Plan, 30 June 2016 Air Quality Management Plan, 6 Oct 2016 	<p>A draft Air Quality Management Plan was submitted to the DP&E on 1 August 2016 and comments were received by Pacific Blue Metal on 12 September 2016. The draft Air Quality Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E in relation to approval of this Plan, at the date of this audit.</p> <p>The Air Quality Management Plan includes:</p> <p>(a) the Air Quality Management Plan was submitted to the Secretary for approval on 1 August 2016 (submission date extension granted by DP&E on 30 June 2016);</p> <p>(b) sections 10, 11 and 12 describe the measures to be implemented to ensure best practice management and compliance with the relevant conditions of this consent occurs. Air quality impacts from the Possum Brush Quarry are minimised during adverse meteorological conditions and extraordinary events;</p> <p>(c) section 10 and 11 describe the proposed air quality management system; and</p> <p>(d) sections 10 to 15 describe the air quality monitoring program to evaluate performance of the quarry; a protocol for determining any exceedances of the relevant conditions of consent; supports the air quality management system; and evaluates and reports on the adequacy of the air quality management system. No monitoring requirements for dust are contained in the EPL 3393 conditions.</p>	Compliant (DP&E Approval in Progress)
	Meteorological Monitoring			
3/13	For the life of the development, the Applicant shall ensure that there is a suitable meteorological station operating in the vicinity of		A meteorological station is to be installed within the "Possum Brush" Quarry site boundaries by January 2017. The	In progress

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	the site that complies with the requirements in the <i>Approved Methods for Sampling of Air Pollutants in New South Wales</i> guideline.		meteorological station is planned to be installed adjacent to the water tanks near the Administration Office. Meteorological data required for the management of the "Possum Brush" Quarry operations has been available from the Failford Quarry / Tuncurry BOM weather station.	(at the date of this audit)
	Greenhouse Gas Emissions			
3/14	The Applicant shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.		Management of the quarry operations and activities to minimise diesel / fuel usage is practised at the "Possum Brush" Quarry to minimise the release of greenhouse gas emissions from the site. Management of electrical power usage is also practised to reduce greenhouse gas impact from the project, where practicable.	Compliant Ongoing
	SOIL AND WATER			
	Water Supply			
3/15	The Applicant shall ensure it has sufficient water for all stages of the development, and if necessary, adjust the scale of quarrying operations to match the available water supply. <i>Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development.</i>	<ul style="list-style-type: none"> Environmental Assessment Nov 2015, section 5.6.5 Maximum Harvestable Right Dam Capacity Calculation, DPI-Water 	The volume of water accumulating in on-site Dams 1, 3 and 4, and Area A sump, is adequate to meet the on-site water requirements for the quarry operations and processing plant. No licences under the Water Act are required for the "Possum Brush" Quarry operations. The Maximum Harvestable Rights Dams Capacity (MHRDC) (introduced as part of the DWE Farm Dams Policy in 1999), entitles a landholder to capture up to 10% of the rainfall and runoff from the property and use it for any purpose without needing a licence for the dam(s). DPI OoW Maximum Harvestable Right Dam Capacity Calculator indicated that the MHRDC for "Possum Brush" Quarry is 31.5436ML for the total project area of 286.76 Ha. All dams and water structures at the quarry are designed to collect, treat and store sediment laden water for re-use on site. As such these dams/water structures are not considered in assessing the harvestable right. No MHRDC is required for the quarry project.	Compliant
	Water Discharges			
3/16	The Applicant shall comply with the discharge limits in any EPL, or with section 120 of the POEO Act.	<ul style="list-style-type: none"> <i>Protection of the Environment Operations Act 1997</i> section 120 	Any water discharged from the "Possum Brush" Quarry site has occurred in compliance with the EPL 3393 and the <i>Protection of the Environment Operations Act 1997</i> section 120.	Compliant
	Groundwater			
3/17	In the event that groundwater in excess of negligible quantities is intersected during quarrying operations, the Applicant shall undertake a hydrogeological investigation, in consultation with DPI Water, to the satisfaction of the Secretary. The investigation must report on groundwater sources, levels, yield and quality; identify		Groundwater within the approved extraction areas has not been intersected during the quarry to the date of this audit (October 2016).	Not activated

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	any risks to groundwater users or groundwater dependent ecosystems and propose recommended management measures. The Applicant must implement reasonable and feasible management measures to the satisfaction of the Secretary.			
	Water Management Plan			
3/18	<p>The Applicant shall prepare a Water Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:</p> <p>(a) be prepared in consultation with the EPA and DPI Water;</p> <p>(b) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;</p> <p>(c) include a Site Water Balance that includes details of:</p> <ul style="list-style-type: none"> • sources and security of water supply; • water uses, losses and management on site; • any off-site water transfers; and • reporting procedures; and <p>(d) include a Surface Water Management Plan that includes:</p> <ul style="list-style-type: none"> • detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development; • a detailed description of the surface water management system on site, including the: <ul style="list-style-type: none"> o clean water diversion system; o erosion and sediment controls; o stormwater runoff controls; o dirty water management system; and o water storages; and • a program to monitor and report on: <ul style="list-style-type: none"> o any surface water discharges; o the effectiveness of the water management system; and o surface water flows and quality in local watercourses; and • measures that would be implemented to minimise water use on site; • identification of all reasonable and feasible measures to improve the quality of surface water within and around the site; <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	<ul style="list-style-type: none"> • Development Consent 283/97 MOD 3 condition 25 and 26, 12 Dec 2012 • Letter to DP&E re Extension of Time for Submission of the Water Management Plan, 29 Jun 2016 • Letter from DP&E re Extension of Submission Date to 1Aug 2016, 30 Jun 2016 • Letter to DP&E re Revised Management Plan, 1 Aug 2016 • Letter from DP&E re Comments on Management Plans, 12 Sep 2016 • Letter to DP&E re Submission of Management Plans addressing DP&E Comments, 6 Oct 2016 • Water Management Plan, 6 Oct 2016 	<p>A draft Water Management Plan was submitted to the DP&E on 1 August 2016 and comments were received by Pacific Blue Metal on 12 September 2016. The draft Water Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E in relation to approval, at the date of this audit.</p> <p>The Water Management Plan includes:</p> <p>a) section 3.1 identifies consultation with the EPA and DPI-Water;</p> <p>(b) the Water Management Plan was submitted to the Secretary for approval on 1 August 2016 (submission date extension granted by DP&E on 30 June 2016</p> <p>(c) section 9 addresses Site Water Balance that includes:</p> <ul style="list-style-type: none"> • sources and security of water supply – section 9.3; • water uses, losses and management on site, - section 9.2; • reporting procedures –section 12; and <p>(d) section 5 Surface Water Management Plan includes:</p> <ul style="list-style-type: none"> • section 5.3 addresses baseline data on surface water flows and quality in water bodies that could potentially be affected by the development; • sections 9, 10 and 11 provide a detailed description of the surface water management system on site, including the clean water diversion system; erosion and sediment controls – section 10; stormwater runoff controls – section 9.4; dirty water management system – section 9.4; and water storages – section 9.2; • section 11 addresses a program to monitor and report on surface water discharges; surface water flows and quality in local watercourses; and • section 9.2 outlines measures to minimise water use on site; • section 9.4 outlines reasonable and feasible measures to improve the quality of surface water within and around the site. 	Compliant (DP&E Approval in Progress)
	LANDSCAPE AND REHABILITATION			
	Rehabilitation Objectives			
3/19	The Applicant shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be in accordance with the objectives in Table 5.	<ul style="list-style-type: none"> • Landscape and Rehabilitation Management Plan, 6 Oct 2016 	The areas of disturbance are currently approaching the maximum approved area for the quarry development.	Compliant Ongoing

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance														
	<p><i>Table 5: Rehabilitation objectives</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Feature</th> <th>Objective</th> </tr> </thead> <tbody> <tr> <td>Site (as a whole)</td> <td> <ul style="list-style-type: none"> • Safe, stable and non-polluting. • Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land. • Restored with native, endemic vegetation </td> </tr> <tr> <td>Vegetated land</td> <td> <ul style="list-style-type: none"> • Conserved and enhanced with native, endemic vegetation. • Containing self-sustaining ecosystems. </td> </tr> <tr> <td>Surface infrastructure</td> <td> <ul style="list-style-type: none"> • Decommissioned and removed, unless the Secretary agrees otherwise </td> </tr> <tr> <td>Quarry benches and Pit floor</td> <td> <ul style="list-style-type: none"> • Landscaped and vegetated using native trees and understorey species. </td> </tr> <tr> <td>Final Void</td> <td> <ul style="list-style-type: none"> • Minimise the height and slope of batters. • Minimise the drainage catchment. </td> </tr> <tr> <td>Community</td> <td> <ul style="list-style-type: none"> • Ensure public safety. • Minimise the adverse socio-economic effect of quarry closure. </td> </tr> </tbody> </table>	Feature	Objective	Site (as a whole)	<ul style="list-style-type: none"> • Safe, stable and non-polluting. • Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land. • Restored with native, endemic vegetation 	Vegetated land	<ul style="list-style-type: none"> • Conserved and enhanced with native, endemic vegetation. • Containing self-sustaining ecosystems. 	Surface infrastructure	<ul style="list-style-type: none"> • Decommissioned and removed, unless the Secretary agrees otherwise 	Quarry benches and Pit floor	<ul style="list-style-type: none"> • Landscaped and vegetated using native trees and understorey species. 	Final Void	<ul style="list-style-type: none"> • Minimise the height and slope of batters. • Minimise the drainage catchment. 	Community	<ul style="list-style-type: none"> • Ensure public safety. • Minimise the adverse socio-economic effect of quarry closure. 		<p>Progressive rehabilitation will commence as individual terminal benches are completed, to meet the rehabilitation objectives in Table 5 and the commitments in the Landscape and Rehabilitation Management Plan section 5 and 10.</p> <p>Progressive rehabilitation of completed benches above the Extraction Area A sump has occurred providing a stable well vegetated batter.</p>	
Feature	Objective																	
Site (as a whole)	<ul style="list-style-type: none"> • Safe, stable and non-polluting. • Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land. • Restored with native, endemic vegetation 																	
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Community	<ul style="list-style-type: none"> • Ensure public safety. • Minimise the adverse socio-economic effect of quarry closure. 																	
	Progressive Rehabilitation																	
3/20	<p>The Applicant shall rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation.</p> <p><i>Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to disturbance in the future.</i></p>	<ul style="list-style-type: none"> • Landscape and Rehabilitation Management Plan, 6 Oct 2016 	<p>Progressive rehabilitation will commence as individual terminal benches are completed, to meet the rehabilitation objectives in Table 5 and the commitments in the Landscape and Rehabilitation Management Plan section 5 and 10.</p> <p>Progressive rehabilitation of completed benches above the Extraction Area A sump has occurred providing a stable well vegetated batter.</p>	Compliant Ongoing														
	Landscape and Rehabilitation Management Plan																	
3/21	<p>The Applicant shall prepare a Landscape and Rehabilitation Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must: (a) be prepared in consultation with OEH and Council;</p>	<ul style="list-style-type: none"> • Letter to DP&E re Extension of Time for Submission of the Landscape and Rehabilitation Management Plan, 29 Jun 2016 	<p>A draft Landscape and Rehabilitation Management Plan was submitted to the DP&E on 1 August 2016 and comments were received by Pacific Blue Metal on 12 September 2016. The draft Landscape and Rehabilitation Management Plan was revised to address the DP&E comments and resubmitted to DP&E on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E at the date of this audit.</p>	Compliant (Approval in Progress)														

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	<p>(b) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;</p> <p>(c) provide details of the conceptual final landform and associated land uses for the site;</p> <p>(d) describe the short, medium and long-term measures that would be implemented to ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent;</p> <p>(e) include a program to progressively improve the structure and floristic composition of the established wildlife corridor which includes:</p> <ul style="list-style-type: none"> • maintaining a fence around the wildlife corridor to exclude grazing stock; maintaining wildlife warning signs and speed limits on internal roads; making suitable arrangements to protect in perpetuity the wildlife corridor; and <p>(f) include a program to monitor Rudder's Box within the Applicant's property;</p> <p>(g) include a detailed description of the measures that would be implemented to:</p> <ul style="list-style-type: none"> • maximise the salvage of environmental resources within the approved disturbance area for beneficial reuse; • protect vegetation and fauna habitat outside the approved extraction area; • minimise tree or native vegetation removal or destruction; • use pre-existing or local plant species for revegetation; • minimise the impacts on native fauna and flora, including Brush-tailed Phascogale and Rudder's Box; • landscape the site to minimise visual and lighting impacts; • control weeds and feral pests; • control erosion; • control access; and • bushfire management; and <p>(h) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;</p> <p>(i) identify the potential risks to the successful rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate these risks; and</p> <p>(j) include details of who would be responsible for monitoring, reviewing, and implementing the plan.</p> <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p> <p><i>Note: For the purposes of this consent, suitable arrangements to protect the wildlife corridor in perpetuity may include the use of Public Positive Covenants in combination with Restrictions on Use</i></p>	<ul style="list-style-type: none"> • Letter from DP&E re Extension of Submission Date to 1 Aug 2016, 30 Jun 2016 • Letter to DP&E re Revised Management Plan, 1 Aug 2016 • Letter from DP&E re Comments on Management Plans, 12 Sep 2016 Letter to DP&E re Submission of Management Plans addressing DP&E Comments, 6 Oct 2016 • Landscape and Rehabilitation Management Plan, 6 Oct 2016 	<p>The Landscape & Rehabilitation Management Plan includes:</p> <p>a) section 3 addresses consultation with OEH and Council and landholders;</p> <p>(b) the Landscape and Rehabilitation Management Plan was submitted to the Secretary for approval on 1 August 2016 (submission date extension granted by DP&E on 30 June 2016);</p> <p>(c) sections 10.1 and 10.3 provide details of the conceptual final landform and associated land uses for the site;</p> <p>(d) section 10.2 describes the short, medium and long-term measures to be implemented to ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent;</p> <p>(e) section 9.2 describes maintenance of a fence around the wildlife corridor to exclude grazing stock, and arrangements to protect in perpetuity the wildlife corridor. Section 9.4 outlines wildlife warning signs and speed limits on internal roads;</p> <p>(f) section 9.3 include a program to monitor Rudder's Box within the Pacific Blue Metal property;</p> <p>(g) section 9 includes a description of the measures to be implemented to:</p> <ul style="list-style-type: none"> • maximise the salvage of environmental resources within the approved disturbance area for beneficial reuse; • protect vegetation and fauna habitat outside the approved extraction area; • minimise tree or native vegetation removal or destruction; • use pre-existing or local plant species for revegetation; • minimise the impacts on native fauna and flora, including Brush-tailed Phascogale and Rudder's Box; • landscape the site to minimise visual and lighting impacts; • control weeds and feral pests; • control erosion; • control access; and • bushfire management; and <p>(h) section 13 includes a monitoring program for reporting on the effectiveness of measures in (g) and progress against the performance and completion criteria;</p> <p>(i) section 10.2 identifies the potential risks to the successful rehabilitation of the site, and includes a description of the contingency measures to be implemented to mitigate the risks; and</p> <p>(j) section 6 includes of roles and responsibilities for monitoring, reviewing, and implementing the Landscape and Rehabilitation Management Plan.</p>	


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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	<i>of Land on the land title/s of the wildlife corridor. Other arrangements such as the use of Biobanking Agreements or transfer of lands to the national parks estate would also be considered for their suitability.</i>			
	Rehabilitation and Conservation Bond			
3/22	<p>Within 6 months of the approval of the Landscape and Rehabilitation Management Plan, the Applicant shall lodge a Rehabilitation and Conservation Bond with the Department to ensure that the management of biodiversity and the rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the Landscape and Rehabilitation Management Plan. The sum of the bond shall be determined by:</p> <p>(a) calculating the cost of rehabilitating the site taking into account the likely surface disturbance over the next 3 years of quarrying operations; and</p> <p>(b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.</p> <p><i>Note: If the rehabilitation of the site is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.</i></p>		<p>The Rehabilitation and Conservation Bond will be determined and lodged with DP&E within 6 months of the approval of the Landscape and Rehabilitation Management Plan by the Secretary of DP&E.</p> <p>Pacific Blue Metal was awaiting response from DP&E at the date of this audit (October 2016) in relation to approval of the Landscape and Rehabilitation Management Plan submitted to the DP&E on 6 October 2016,</p>	Not triggered
3/23	<p>Within 3 months of each Independent Environmental Audit (see condition 10 of Schedule 5), the Applicant shall review, and if necessary revise, the sum of the Rehabilitation and Conservation Bond to the satisfaction of the Secretary. This review must consider the:</p> <p>(a) effects of inflation;</p> <p>(b) likely cost of rehabilitating the site (taking into account the likely surface disturbance over the next 3 years of the development); and</p> <p>(c) performance of the implementation of the rehabilitation of the site to date.</p>		See above	Not triggered
	ABORIGINAL CULTURAL HERITAGE			
3/24	<p>If any item or object of Aboriginal heritage significance is identified on site, the Applicant shall ensure that: (a) all work in the immediate vicinity of the suspected Aboriginal item or object ceases immediately;</p> <p>(b) a 10 m buffer area around the suspected item or object is cordoned off with high visibility flagging tape, or the like; and</p> <p>(c) OEHL is contacted immediately.</p> <p>Work in the vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the <i>National Parks and Wildlife Act 1974</i>.</p>	<ul style="list-style-type: none"> Development Consent 283/97 MOD condition 28 and 29, 12 Dec 2012 	No Aboriginal heritage item or object of significance was reported to have been identified on "Possum Brush" Quarry site to the date of this audit (October 2016).	Not triggered

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	TRANSPORT			
	Transport Routes			
3/25	No trucks associated with the development are to travel on Bullocky Way, Tritton Road or the section of Possum Brush Road to the west of the intersection with the quarry access road and other minor roads off this section of road unless delivering products to a property fronting onto these roads or providing materials for the maintenance of the roads themselves, without the written agreement of the Secretary.	<ul style="list-style-type: none"> Development Consent 283/97 Mod 3 conditions 50 and 51, 12 Dec 2012 Transport Management Plan, 6 Oct 2016 Truck Drivers Code of Conduct, Oct 2016 	All trucks approaching or departing the "Possum Brush" Quarry site are directed not to travel on the excluded roads. This requirement is noted in the Truck Drivers Code of Conduct item 7.	Compliant Ongoing
	Pacific Highway Intersection			
3/26	The Applicant shall ensure that appropriate advance warning truck signage is installed or replaced on the northbound and southbound lanes of the Pacific Highway, to the satisfaction of the RMS.	<ul style="list-style-type: none"> Development Consent 283/97 MOD condition 32, 12 Dec 2012 Email to RMS re Signage Requirements for Pacific Highway/Possum Brush Road intersections, 21 Sep 2016 	A turning lane has been established at the northbound and southbound lanes and signage erected warning of the Quarry turnoff into Possum Brush Road. Discussions are to be held with RMS to establish whether the existing signage on the Pacific Highway, approaching Possum Brush Road, is sufficient.	In progress
	Operating Conditions			
3/27	The Applicant shall ensure that: (a) all company owned trucks associated with the quarry have appropriate signage, so they can be easily identified by road users; (b) all laden trucks entering or exiting the site have their loads covered; (c) all laden trucks exiting the site are cleaned of materials that may fall on the road, before leaving the site; and (d) road maintenance requirements, including the removal of any obstructing roadside vegetation, are reported to Council for Possum Brush Road and to RMS for the Pacific Highway.	<ul style="list-style-type: none"> Development Consent 283/97 MOD condition 56, 12 Dec 2012 Development Consent 283/97 MOD condition 35, 12 Dec 2012 	<ul style="list-style-type: none"> (a) substantial signage on company owned trucks was observed during the site audit inspection. (b) All laden trucks entering or exiting the site are checked and required to have their loads covered (c) All laden trucks exiting the site are cleaned of materials that may fall on the road, before leaving the site; (d) There has not been a need to request any road maintenance or removal of any obstructing roadside vegetation during 2016. 	Compliant
	Transport Management Plan			
3/28	The Applicant shall prepare a Transport Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must: (a) be prepared in consultation with RMS and Council; (b) be submitted to the Secretary for approval by within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;	<ul style="list-style-type: none"> Transport Management Plan, 6 Oct 2016 Letter to DP&E re Extension of Time for Submission of the Water Management Plan, 29 Jun 2016 	A draft Traffic Management Plan was submitted to the DP&E on 1 August 2016 and comments were received by Pacific Blue Metal on 12 September 2016. The draft Traffic Management Plan was revised to address the DP&E comments and resubmitted on 6 October 2016. Pacific Blue Metal was awaiting response from DP&E in relation to approval, at the date of this audit.	Compliant (Approval in Progress)

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	<p>(c) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry, particularly having regard to early morning truck arrivals, school bus routes and the location of residential properties; and</p> <p>(d) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct.</p> <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	<ul style="list-style-type: none"> Letter from DP&E re Extension of Submission Date to 1 Aug 2016, 30 Jun 2016 Letter to DP&E re Revised Management Plan, 1 Aug 2016 Letter from DP&E re Comments on Management Plans, 12 Sep 2016 Letter to DP&E re Submission of Management Plans addressing DP&E Comments, 6 Oct 2016 	<p>The Transport Management Plan includes:</p> <p>(a) section 4 of the Transport Management Plan outlines consultation with RMS and Council;</p> <p>(b) the Transport Management Plan was submitted to the Secretary for approval for approval on 1 August 2016 (submission date extension granted by DP&E on 30 June 2016;</p> <p>(c) section 9.4 provides a Truck Drivers Code of Conduct with safe and quiet driving practices to be used by drivers transporting products to and from the quarry, particularly having regard to early morning truck arrivals, school bus routes and the location of residential properties; and</p> <p>(d) section 10 addresses the measures to ensure compliance with the Truck Drivers Code of Conduct.</p>	
	Monitoring of Product Transport			
3/29	<p>The Applicant shall keep accurate records of:</p> <p>(a) the amount of quarry products transported from the site (calendar month and year);</p> <p>(b) the number of truck movements entering and leaving the site (hour, day, calendar month and year); and</p> <p>(c) include these records in the Annual Review (see condition 9 of Schedule 5).</p> <p><i>Note: Records must include material provided to Council, referred to in condition 19 of Schedule 2.</i></p>	<ul style="list-style-type: none"> Annual Review 2015-2016, section 2.7 Annual Review 2015-2016, Appendix 2 Table 13 Records of Truck Movements and Quarry Products, 2015-2016 	<p>Detailed records are kept at Possum Brush Quarry of:</p> <p>(a) Tonnage of quarry products transported from Possum Brush Quarry;</p> <p>(b) Number of truck movements entering and leaving the Possum Brush Quarry;</p> <p>(c) Records of quarry products and truck movements were reported in the Annual Review section 2.7.</p>	Compliant Ongoing
	VISUAL IMPACTS			
3/30	<p>The Applicant shall:</p> <p>(a) implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development; and</p> <p>(b) take all practical measures to shield views of quarrying operations from users of public roads and privately-owned residences, to the satisfaction of the Secretary.</p>		<p>The "Possum Brush" Quarry is located in a heavily wooded area of rolling hills and the quarry operations are shielded from surrounding potential view sheds by the vegetation and topography. The "Possum Brush" Quarry operations are not directly visible from users of public roads or privately-owned residences.</p>	Compliant
	WASTE			
3/31	<p>The Applicant shall:</p> <p>(a) implement all reasonable and feasible measures to minimise the waste generated by the development;</p> <p>(b) ensure that the waste generated by the development is appropriately stored, handled and disposed of; and</p> <p>(c) monitor and report on effectiveness of the waste management and minimisation in the Annual Review (see condition 9 of Schedule 5), to the satisfaction of the Secretary.</p>	<ul style="list-style-type: none"> Annual Review 2015-2016. 	<p>There are a number of waste skips and bins for specific waste segregation (e.g. general waste, waste oil tank adjacent to the oil-water separator at Maintenance Workshop, cardboard, paper etc). Steel is segregated into a dedicated waste skip for collection and recycling.</p> <p>Waste management is reported in the Annual Review section 2.8.</p>	Compliant
	ODOUR			

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3/32	The Applicant shall not cause or permit the emission of offensive odour beyond the boundaries of the site.		No offensive odour(s) were noted during the site inspection conducted for this audit. The quarry was in full operation at the date of the audit (October 2016).	Compliant
	LIQUID STORAGE			
3/33	The Applicant shall ensure that all liquid tanks and similar storage facilities (other than for water) are protected by appropriate bunding, which must exceed 110% of the stored volume of the liquid.	<ul style="list-style-type: none"> Development Consent 283/97 MOD condition 46, 12 Dec 2012 	All liquid tanks and storage facilities were observed to be appropriately bunded with adequate signage.	Compliant
	DANGEROUS GOODS			
3/34	The Applicant shall ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant <i>Australian Standards</i> , particularly AS1940 and AS1596, and the <i>Dangerous Goods Code</i>	<ul style="list-style-type: none"> Development Consent 283/97 condition 46 Dangerous Goods Code AS 1940-2004 The storage of flammable and combustible liquids AS 1596-2014 The storage and handling of LP Gas 	All dangerous goods are appropriately labelled and stored at dedicated locations around the Quarry site on concrete pads with the base sloped to a sump for collection and treatment of any spillage or removal from site. All dangerous goods are recorded on a site register.	Compliant
	BUSHFIRE			
3/35	The Applicant shall: (a) ensure that the development is suitably equipped to respond to any fires on site; and (b) assist the Rural Fire Service, emergency services and National Parks and Wildlife Service as much as possible if there is a fire in the surrounding area.	<ul style="list-style-type: none"> Development Consent 283/97 MOD condition 52, 12 Dec 2012 	All earthmoving equipment is fitted with fire extinguishers and the on- site water truck is fitted with pumps and pipework for use in fire-fighting. Pacific Blue Metal would assist the RFS and NP&WS in the event of any fires in areas surrounding the "Possum Brush" Quarry property.	Compliant
	SCHEDULE 4 ADDITIONAL PROCEDURES			
	NOTIFICATION OF LANDOWNERS			
4/1	As soon as practicable after obtaining monitoring results showing: (a) an exceedance of any relevant criteria in Schedule 3, the Applicant shall notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and (b) an exceedance of any relevant air quality criteria in Schedule 3, the Applicant shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).		No exceedances of air quality or noise criteria arising from the operation of the Possum Brush Quarry or identified by the results of monitoring programs have required notification of surrounding landowners, under Schedule 4 condition 1.	Not triggered
	INDEPENDENT REVIEW			
4/2	If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may		No requests were made to the Secretary by any owner	Not triggered

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	ask the Secretary in writing for an independent review of the impacts of the development on his/her land.			
4/3	<p>If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Applicant shall:</p> <p>(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:</p> <ul style="list-style-type: none"> • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and • if the development is not complying with these criteria then identify measures that could be implemented to ensure compliance with the relevant criteria; and <p>(b) give the Secretary and landowner a copy of the independent review.</p>			Not triggered
SCHEDULE 5 - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING				
ENVIRONMENTAL MANAGEMENT				
Environmental Management Strategy				
5/1	<p>The Applicant shall prepare and implement an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:</p> <p>(a) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;</p> <p>(b) provide the strategic framework for the environmental management of the development;</p> <p>(c) identify the statutory approvals that apply to the development;</p> <p>(d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;</p> <p>(e) describe the procedures that would be implemented to:</p> <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the development; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the course of the development; • respond to any non-compliance; and • respond to emergencies; and <p>(f) include:</p> <ul style="list-style-type: none"> • copies of any strategies, plans and programs approved under the conditions of this development consent; and • a clear plan depicting all the monitoring required to be carried out under the conditions of this consent. 	<ul style="list-style-type: none"> • Environmental Management Strategy, 6 Oct 2016 • Letter to DP&E re Extension of Time for Submission of the Water Management Plan, 29 Jun 2016 • Letter from DP&E re Extension of Submission Date to 1 Aug 2016, 30 Jun 2016 • Letter to DP&E re Revised Management Plan, 1 Aug 2016 • Letter from DP&E re Comments on Management Plans, 12 Sep 2016 • Letter to DP&E re Submission of Management Plans addressing DP&E Comments, 6 Oct 2016 	<p>A draft Environmental Management Strategy was submitted to the DP&E on 1 August 2016 and comments were received by Pacific Blue Metal on 12 September 2016. The draft Environmental Management Strategy was revised to address the DP&E comments and resubmitted to DP&E on 6 October 2016.</p> <p>The Environmental Strategy includes:</p> <p>(a) the Environmental Strategy was submitted to the Secretary for approval on 1 August 2016 in accordance with the extension for submission granted by the Secretary on 30 June 2016;</p> <p>(b) section 3 provides a strategic framework for environmental management of the "Possum Brush" Quarry;</p> <p>(c) section 4 identifies the statutory approvals that apply to the "Possum Brush" Quarry development;</p> <p>(d) section 15 describes the role, responsibility, authority and accountability of key personnel involved in the environmental management of the development;</p> <p>(e) procedures implemented to:</p> <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the development – section 12 and 14 • receive, handle, respond to, and record complaints – section 10.1; 	Compliant (Approval in progress)

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
			<ul style="list-style-type: none"> • resolve any disputes that may arise during the course of the development-section 10.2; • respond to any non-compliance – section 7 and.8; and • respond to emergencies - section 11; and (f) the “Possum Brush” Quarry includes Table 5 that lists strategies, plans and programs approved under the conditions of this Development Consent; and section 6 addresses monitoring programs required under the conditions of this consent. 	
	Management Plan Requirements			
5/2	<p>The Applicant shall ensure that the Management Plans required under this consent are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) detailed baseline data;</p> <p>(b) a description of:</p> <ul style="list-style-type: none"> • the relevant statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria; and • the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; <p>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>(d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> • impacts and environmental performance of the development; and • effectiveness of any management measures (see (c) above); <p>(e) a contingency plan to manage any unpredicted impacts and their consequences;</p> <p>(f) a program to investigate and implement ways to improve the environmental performance of the development over time;</p> <p>(g) a protocol for managing and reporting any:</p> <ul style="list-style-type: none"> • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; and <p>(h) a protocol for periodic review of the plan.</p> <p><i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i></p>	<ul style="list-style-type: none"> • Noise Management Plan, 6 Oct 2016 • Blast Management Plan, 6 Oct 2016 • Air Quality Management Plan, 6 Oct 2016 • Water Management Plan, 6 Oct 2016 • Landscape and Rehabilitation Management Plan, 6 Oct 2016 • Transport Management Plan, 6 Oct 2016 	The draft Management Plans have been prepared and include reference and description of each of the relevant elements nominated in Schedule 5 condition 2. Refer to section 5.2 of the Independent Environmental Audit Report main text.	Compliant (DP&E Approvals in Progress)
	Updating & Staging Submission of Strategies, Plans or Programs			
5/3	To ensure the strategies, plans or programs under this consent are updated on a regular basis, and that they incorporate any appropriate mitigation measures to improve the environmental performance of the development, the Applicant may at any time		Strategies, plans and programs will be updated in accordance with this condition and Condition 5(4).	Not yet triggered

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	<p>submit revised strategies, plans or programs to the Secretary for approval. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis.</p> <p>With the agreement of the Secretary, the Applicant may revise any strategy, plan or program approved under this consent without consulting with all the parties nominated under the applicable conditions of consent.</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times. • If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program. 			
	Revision of Strategies, Plans & Programs			
5/4	<p>Within 3 months of the submission of an:</p> <p>(a) Annual Review under condition 9 below;</p> <p>(b) incident report under condition 7 below;</p> <p>(c) audit report under condition 10 below; and</p> <p>(d) any modifications to this consent,</p> <p>the Applicant shall review, and if necessary revise, the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary.</p> <p><i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.</i></p>		Plans, programs and strategies will be reviewed and, if necessary, revised in accordance with this condition.	Not yet triggered
	Adaptive Management			
5/5	<p>The Applicant shall assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.</p> <p>Where any exceedance of these criteria and/or performance measures has occurred, the Applicant shall, at the earliest opportunity:</p> <p>(a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur;</p> <p>(b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing</p>		Pacific Blue Metal assesses and manages development-related risks in an ongoing program to ensure that there are no exceedances of the criteria and/or performance measures in Development Consent 283/97 MOD 4 Schedule 3. If any exceedance of these criteria and/or performance measures occur, Pacific Blue Metal would take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur.	Compliant Ongoing

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	those options and any preferred remediation measures or other course of action; and (c) implement remediation measures as directed by the Secretary, to the satisfaction of the Secretary.			
	COMMUNITY CONSULTATIVE COMMITTEE			
5/6	<p>The Applicant shall operate a Community Consultative Committee (CCC) for the development, to the satisfaction of the Secretary. This CCC must be operated in general accordance with the <i>Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects</i> (Department of Planning, 2007, or its latest versions)</p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> • <i>The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.</i> • <i>In accordance with the guideline, the committee should be comprised of an independent chair and appropriate representation from the Applicant, Council, and the local community.</i> 	<ul style="list-style-type: none"> • <i>Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects, DoP, 2007</i> • Development Consent 283/97 MOD 3 condition 42 to 44, 12 Dec 2012 	<p>The Community Consultative Committee has been established under Development Consent 283/97. Meeting dates and frequency are determined by the Greater Taree City Council, and the meetings are held at the Council Offices. Council provide a Minute Taker for the meetings. Members of the CCC at the date of this audit were:</p> <p>Greater Taree City Council: Councillor David West (Chair); Petula Bowden; Arna Fotheringham; Maree Schubert (Minute Taker)</p> <p>Pacific Blue Metal Quarry Charlie Kennett (General Manager)</p> <p>Community Representatives: Don Brown; and Trudy Taylor</p>	Compliant
	REPORTING			
	Incident Reporting			
5/7	<p>The Applicant shall notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant shall notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.</p>		No environmental reportable incidents requiring a report occurred during the period 1 April 2016 to 30 June 2016.	Not triggered
	Regular Reporting			
5/8	<p>The Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.</p>		The website for the Possum Bush Quarry /Pacific Blue Metal is planned to be establish by January 2017.	In progress
	ANNUAL REVIEW			
5/9	<p>By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:</p> <p>(a) describe the development (including rehabilitation and road maintenance) that was carried out in the previous calendar year,</p>	<ul style="list-style-type: none"> • Development Consent 283/97 MOD 3 condition 38 to 41, 12 Dec 2012 • 2015-2016 Annual Review, dated 30 Sep 2016 	<p>This report is the first Annual Review for the Quarry since Development Consent 283/97 Mod 4 was issued on 1 April 2016. The Annual Review included:</p> <p>(a) Section 2 describes the development that was carried out in the previous 12 months under Development Consent 283/97 MOD 3 between 1 July 2015 and 1 April 2016 and Consolidated Development Consent 283/97 MOD 4 1 April</p>	Compliant Ongoing

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	<p>and the development that is proposed to be carried out over the current calendar year;</p> <p>(b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against:</p> <ul style="list-style-type: none"> • the relevant statutory requirements, limits or performance measures/criteria; • requirements of any plan or program required under this consent; • the monitoring results of previous years; and • the relevant predictions in the documents listed in condition 2 of Schedule 2; <p>(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>(d) identify any trends in the monitoring data over the life of the development;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and</p> <p>(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.</p> <p>The Applicant shall ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 6 of Schedule 5) and any interested person upon request.</p>		<p>and 30 June 2016. Activities planned between July 2016 and June 2017 are described in section 3 provides with targets planned for 2016 to 2017;</p> <p>(b) Section 2 –provides a review of the activities and monitoring results for the “Possum Brush” Quarry development over the period 1 July 2015 to 30 June 2016, against the relevant statutory requirements, limits or performance measures/criteria.</p> <p>As Development Consent MOD 4 was granted on 1 April 2016, comparison of monitoring results of previous years was not available, but the comparison will be included in subsequent Annual Reviews when data is available.</p> <p>(c) Section 2 and Appendix 2 provide comment on compliance for each activity and environmental aspect;</p> <p>(d) Section 2 and Appendix 2 - monitoring data is provided and comments on compliance status are provided. As Development Consent MOD 4 was granted on 1 April 2016, trends in monitoring results of previous years was not available;</p> <p>(e) predicted impacts identified in the Environmental Assessment for the Possum Brush Quarry MOD 4 are commented on Section 2 of the Annual Review; and</p> <p>(f) Section 3 – Activities planned between July 2016 and June 2017 and an overview of activities and targets planned for 2016 to 2017 is provided.</p>	
	INDEPENDENT ENVIRONMENTAL AUDIT			
5/10	<p>By 30 September 2016, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:</p> <p>(a) be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;</p> <p>(b) include consultation with the relevant agencies;</p> <p>(c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL and/or Water License (including any assessment, plan or program required under these approvals);</p> <p>(d) review the adequacy of any approved strategy, plan or program required under these approvals; and</p> <p>(e) recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under these approvals.</p> <p><i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</i></p>	<ul style="list-style-type: none"> • Letter from DP&E re Approval of the Independent Environmental Auditor, 12 Sep 2016 	<p>Trevor Brown of Trevor Brown & Associates was commissioned to undertake the first Independent Environmental Audit under Development Consent 283/97 MOD 4 on 30 September 2016.</p> <p>The Independent Environmental Audit was conducted between 10 October and 24 October 2016, with a site visit / inspection and document review undertaken on 10 October 2016.</p> <p>(a) The DPE approved Trevor Brown as the independent auditor in correspondence dated 12 September 2016;</p> <p>(b) Consultation with the EPA, OEHL, DPI-Water, Mid-Coast Council and DP&E occurred on 30 September 2016;</p> <p>(c) Environmental performance and compliance of the development is addressed in section 4 of the audit report;</p>	Compliant

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
			(d) Adequacy of approved strategy, plans and programs is addressed in Appendix A of the audit report; (e) Observations, recommend measures or actions if required are addressed in the Conclusions section 5 of the audit report.	
5/11	Within 6 weeks of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.		This first independent audit report will be submitted to DPE in accordance with this condition	Noted
	ACCESS TO INFORMATION			
5/12	By 31 December 2016, unless otherwise agreed by the Secretary, the Applicant shall: (a) make the following information publicly available on its website: <ul style="list-style-type: none"> • the documents listed in condition 2 of Schedule 2; • current statutory approvals for the development; • approved strategies, plans or programs; • a summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent; • a complaints register, which is to be updated on a quarterly basis; • the Annual Reviews (over the last 5 years); • any independent environmental audit, and the Applicant's response to the recommendations in any audit; and • any other matter required by the Secretary; and (b) keep this information up-to-date, to the satisfaction of the Secretary. 		Pacific Blue Metal currently plans to establish its website by January 2017.	In progress
	APPENDIX 3: NOISE COMPLIANCE ASSESSMENT			
	Applicable Meteorological Conditions			
1.	The noise criteria in Table 2 apply under all meteorological conditions except the following: <ol style="list-style-type: none"> (a) monitoring locations for collection of representative noise data; (b) wind speeds > 3 m/s at 10m above ground level; or (c) stability category F temperature inversion conditions and wind speeds > 2 m/s at 10m above ground level; or (d) stability category G temperature inversion conditions. 			Noted
	Determination of Meteorological Conditions			
2.	Except for wind speed at microphone height, the data to be used for determining meteorological conditions shall be that recorded by the meteorological station required under condition 33 of Schedule 3.	<ul style="list-style-type: none"> • Possum Brush Quarry Noise Monitoring – 17 Sep 2015, 13 Oct 2015, 23 Oct 2015, and Oct 2016, Spectrum Acoustics 	Spectrum Acoustics Noise Monitoring indicated that, under the operational and atmospheric conditions at the time of monitoring, noise emissions from the quarry did not exceed the relevant noise criteria at any monitoring location at any time during the survey.	Compliant

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DA	Consolidated Development Approval 283/97 Condition	Verification	Comments	Compliance
	Compliance Monitoring			
3.	Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.		Attended noise monitoring has been conducted by Spectrum Acoustics to evaluate compliance with the relevant conditions of this consent.	Compliant
4.	Unless otherwise directed by the Secretary, attended quarterly monitoring is to be used to evaluate compliance with the relevant conditions of this consent. <i>Note: The Secretary may direct that the frequency of attended monitoring increase or decrease at any time during the life of the development.</i>	<ul style="list-style-type: none"> EPL 3393 condition L4 and M7.1 Possum Brush Quarry Noise Monitoring – 17 Sep 2015, 13 Oct 2015 and 23 Oct 2015, Spectrum Acoustics Letter/Email to DP&E re Change to Annual Monitoring, 6 October 2016 	<p>Noise monitoring was not conducted within 3 months of this consent approval. Noise monitoring conducted by Spectrum Acoustics for daytime on 17 September 2015, night-time on 20 October 2015 and evening on 24 November 2015, and in October 2016 demonstrated compliance with the noise criteria in Development Consent 283/97 MOD 4 Schedule 3 condition 4 and EPL 3393 condition L4.</p> <p>EPL 3393 condition M7.1 requires annual noise monitoring to determine compliance with the noise limits in EPL 3393 condition L4.</p> <p>A request for the Secretary to consider annual noise monitoring as specified in the EPL 3393 condition M4 and the Noise Management Plan was submitted to DP&E with the Noise Management Plan on 6 October 2016.</p>	Administrative Non-compliance
				Awaiting Response from DP&E
5.	Unless otherwise agreed with the Secretary, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the <i>NSW Industrial Noise Policy</i> (as amended from time to time), in particular the requirements relating to: (a) monitoring locations for the collection of representative noise data; (b) meteorological conditions during which collection of noise data is not appropriate; (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and (d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.	<ul style="list-style-type: none"> Noise Management Plan, Oct 2016 	<p>Identification of the noise monitoring locations is provided in Table 1 and Figure 1 of the Spectrum Acoustics reports. The detailed location of the noise monitoring equipment at each location was not provided in the noise reports prepared by Spectrum Acoustics.</p> <p>It is recommended that Spectrum Acoustics report the noise monitoring equipment location in future reports in accordance with the requirements in EPL condition L4.6 and provide comment on the requirements in Development Consent 283/97 Appendix 3 Noise Compliance Assessment.</p>	Administrative Non-Compliance

Attachment B Development Consent 1127/2005 (Asphalt Plant)

Condition No.	Development Consent Condition	Verification	Comments	Compliance Status
1	Development of the site generally in accordance with the Statement of Environmental Effects		The site is being developed generally in accordance with the Statement of Environmental Effects.	Compliant Ongoing
2	Submit Construction Certificate with Council least 48 hours prior to commencement of any building work on the site.	<ul style="list-style-type: none"> Construction Certificate, 24 Nov 2007 	Construction Certificate was submitted to the Council on 24 November 2007.	Closed
3	Payment of the prescribed Long Service Levy Fee prior to the issue of a Construction Certificate.		Long Service Levy Fee paid to the Council prior to the issue of a Construction Certificate.	Closed
4	Repair any damage to existing roads caused during the construction works, prior to the issue of an Occupation Certificate.		No damage occurred to existing roads was caused during the construction period.	Not triggered
5	Gross Pollutant Traps (GPT) are to be installed at the last inlet pits before stormwater enters receiving waters. Details of the GPTs, submitted to Council with the engineering drawings.		Water management structures for control of stormwater within the Possum Brush Quarry were installed/constructed during the development of quarry to address this matter.	Closed
6	All adjustments to existing utility services are to be undertaken by the developer.		All adjustments to existing utility services were addressed by Pacific Blue Metal Pty Ltd during the development of the quarry.	Closed
7	Repair any damage to existing roads caused during the constructions works prior to the issue of an Occupation Certificate.		No damage occurred to existing roads was caused during the construction period.	Not triggered
8	Compliance with the General Terms of Approval issued by the Department of Environment and Conservation.	<ul style="list-style-type: none"> EPL 3393 condition E1, 14 Jan 2010 	The asphalt plant was developed and is operated generally in compliance with the conditions of this Development Consent and EPL 3393 Variation 1110571 (dated 14 January 2010).	Compliant
9	The plant being operated in accordance with the details provided in the Statement of Environmental Effects.		The Asphalt Plant is being operated generally in accordance with the Statement of Environmental Effects – (observation by R. Corkery, September 2016).	Not verified
10	The plant will be permitted to operate 24 hours per day from 6:30am Monday to 10:00pm Friday for a maximum of 60 days per calendar year. A monthly report providing details to be available to Council upon request.	<ul style="list-style-type: none"> EPL 3393 condition L6.2 	The asphalt plant has not exceeded the 60days permissible limit under this Development Consent condition. No requests for extended hours on any day has been lodged or a request for a monthly report made by Council.	Compliant Ongoing

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Condition No.	Development Consent Condition	Verification	Comments	Compliance Status
11	Compliance with any requirements imposed within an EPL issued by the Environment Protection Authority.	<ul style="list-style-type: none"> • EPL 3393 Variation 1539774 (dated 26 May 2016) • Emails to EPA Manager of Hunter Region re Asphalt Plant Night-time Operation: <ul style="list-style-type: none"> ○ 28 Jul 2016 ○ 11, 12 and 16 Aug 2016 ○ 24, 28 and 31 Oct 2016 	<p>The asphalt plant was developed and is operated generally in compliance with the conditions of this Development Consent and EPL 3393 between April and October 2016.</p> <p>During April to October 2016 the asphalt plant night work operations were conducted on seven (7) occasions. The EPA Manager of Hunter Region was notified via email in accordance with EPL 3393 condition L6.2(h) on each occasion.</p>	Compliant
12	The noise level generated by trucks associated with Pacific Blue Metal Pty Ltd travelling along Possum Brush Road shall not exceed Leq1hr50dB(A) within 1m of the façade on any residence located between the quarry entrance and Pacific Highway during night-time operation. Biannual monitoring required with notification to affected residents.	<ul style="list-style-type: none"> • Possum Brush Quarry Noise Monitoring – Sep 2015, Spectrum Acoustics, 13 Oct 2015 • Possum Brush Quarry Noise Monitoring – Oct 2015, Spectrum Acoustics, 23 Oct 2015 	Measurements taken during operations (prior to 6:30am) on 20 October 2015 recorded acceptable noise levels.	Compliant Ongoing
13	The review of the EMP is to take into account the potential impact of extended operations on local fauna, effectiveness of existing mitigation measures and any additional measures required to monitor and reduce potential impacts.	<ul style="list-style-type: none"> • Development Consent 283/97 MOD 3 condition 27, 12 Dec 2012 	This requirement is reflected in the Environmental Management Plan prepared for July 2012 to June 2017. The environmental management of the area and operation of the asphalt plant is also included in the management plans developed for Development Consent 283/97 MOD 4.	Compliant

Development Consent 769/2009 (Recycling)

Condition No.	Development Consent 769/2009 - Condition	Verification	Comments	Compliance Status				
1	The development is to be carried out in accordance with the following approved development plans:		Incoming waste materials are currently stockpiled in the defined Area A specified in the approved Development Plan.	Compliant				
	<table border="1"> <thead> <tr> <th>Title/ Name</th> <th>Drawing No.</th> <th>Revision</th> <th></th> </tr> </thead> <tbody> <tr> <td>PBM Recycling</td> <td>Proposed Location</td> <td>-</td> <td>Pacific Blue Metal Pty Ltd</td> </tr> </tbody> </table>				Title/ Name	Drawing No.	Revision	
Title/ Name	Drawing No.	Revision						
PBM Recycling	Proposed Location	-	Pacific Blue Metal Pty Ltd					
2	The NSW Environment Protection Authority has given General Terms of approval in relation to the development. The General Terms of approval are as follows:							
2a	Trucks associated with the waste recycling activities must not enter the premises prior to 7:00 am. <i>Note: The necessity for this condition will be assessed by the EPA after it has been determined if trucks at the premises are causing exceedances of the L_{Amax} noise limits and/or if all feasible and reasonable noise ameliorative works have been undertaken.</i>	<ul style="list-style-type: none"> Transport Management Plan, 6 Oct 2016 Drivers Code of Conduct 	All truck drivers are advised not to enter site before 7:00am. A sign at the front entrance to the quarry stipulates opening time of 7:00am. Transport Management Plan /Drivers Code of Conduct item 4, stipulates the hours of operation for trucks entering or leaving the "Possum Brush" Quarry premises.	Compliant Ongoing				
2b	Stormwater from all areas of the premises which has the potential to mobilise sediments and other material must be controlled and diverted through the appropriate erosion and sediment control and/or pollution control measures/structures.		All stormwater is contained within the "Possum Brush" Quarry Surface Water Management System.	Compliant Ongoing				
2c	Erosion and sediment control measures and/or structures to capture stormwater from all areas of the premises must be installed and maintained.		All erosion and sediment contained within the "Possum Brush" Quarry Surface Water Management System.	Compliant Ongoing				
2d	The proponent must ensure that any waste received at the premises is assessed and classified in accordance with the EPA's Waste Classification Guidelines as in force from time to time.	<ul style="list-style-type: none"> Recycling Plant Quality Assurance Program, Version 1 	A Quality Assurance Program has been prepared by Pacific Blue Metal and consultation has occurred with the EPA. The Quality Assurance Program includes: <ul style="list-style-type: none"> section 2.1 and section 7 address inspection of the waste received at the premises (prior to tipping) to ensure it only contains the wastes allowed by the EPL 3393 condition O5 and section 2.2 addresses inspection of the waste after tipping at the premises to ensure it only contains the wastes allowed by this licence. Section 2.2 also addresses documenting all loads of waste received at the premises that contain wastes other than those approved, in the Load Register. 	Compliant Ongoing				
2e	The proponent must not cause, permit or allow any waste to be received at the Premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below. Any waste received at the Premises must only be used for activities referred to in relation to that waste in the column titled "Activity" in the table below. Any waste received at the Premises is subject to	<ul style="list-style-type: none"> EPL 3393, condition L3.1, 26 May 2016 	Only permitted wastes have been received to the Possum Brush Quarry site to the date of this audit (October 2016). All loads received at the Possum Brush Quarry site are checked on arrival and rechecked before acceptance for recycling in accordance with the Quality Assurance Plan. No waste material that did not	Compliant				

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Possum Brush Quarry

Condition No.	Development Consent 769/2009 - Condition	Verification	Comments	Compliance Status													
	<p>those limits or condition, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below. This condition does not limit any other conditions in this Licence.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Waste</th> <th style="width: 35%;">Description</th> <th style="width: 20%;">Activity</th> <th style="width: 30%;">Other limits</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align: center; vertical-align: middle;">General Solid, Waste (Non-putrescible)</td> <td>Concrete, Bricks, Asphalt, Tiles</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">Resource Recovery / Waste Storage</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">Total 10,000 tpa</td> </tr> <tr> <td>Building and Demolition Waste (Non-putrescible) Waste that does not contain asbestos as defined in the EPA's Waste Classification Guideline Part 1: Classifying Waste</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">General and Specific Exempted Waste</td> <td>Waste that meets all the conditions of a resource recovery exemption under Clause 51 A of the <i>Protection of the Environment Operations (Waste) Regulation 2005</i></td> <td style="text-align: center; vertical-align: middle;">As specified in each resource recovery exemption.</td> <td style="text-align: center; vertical-align: middle;">Not applicable</td> </tr> </tbody> </table>	Waste	Description	Activity	Other limits	General Solid, Waste (Non-putrescible)	Concrete, Bricks, Asphalt, Tiles	Resource Recovery / Waste Storage	Total 10,000 tpa	Building and Demolition Waste (Non-putrescible) Waste that does not contain asbestos as defined in the EPA's Waste Classification Guideline Part 1: Classifying Waste	General and Specific Exempted Waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51 A of the <i>Protection of the Environment Operations (Waste) Regulation 2005</i>	As specified in each resource recovery exemption.	Not applicable		<p>comply with the requirements in condition 2e have been accepted at the Possum Brush Quarry site. 765,36 tonnes were received at the Possum Brush Quarry site between July 2015 and June 2016.</p>	
Waste	Description	Activity	Other limits														
General Solid, Waste (Non-putrescible)	Concrete, Bricks, Asphalt, Tiles	Resource Recovery / Waste Storage	Total 10,000 tpa														
	Building and Demolition Waste (Non-putrescible) Waste that does not contain asbestos as defined in the EPA's Waste Classification Guideline Part 1: Classifying Waste																
General and Specific Exempted Waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51 A of the <i>Protection of the Environment Operations (Waste) Regulation 2005</i>	As specified in each resource recovery exemption.	Not applicable														
2f	<p>The proponent must have in place at all times a quality assurance program to ensure only the types of wastes permitted above are received at the premises. This quality assurance program must include:</p> <ul style="list-style-type: none"> (i) Inspection of the waste received at the premises (prior to tipping) to ensure it only contains the wastes allowed by an Environment Protection Licence issued by the EPA; (ii) Inspection of premises to ensure it only contains the wastes allowed by an Environment Protection Licence issued by the EPA; (iii) Documenting all received at the premises that contain wastes other than those approved above (including name and registration number of waste supplier, why the waste load did not comply, and the fate of that load of waste) 	<ul style="list-style-type: none"> • EPL 3393, condition O5.2, 26 May 2016 	<p>Pacific Blue Metal has compiled a comprehensive Quality Assurance Program in consultation with the EPA to formalise waste acceptance criteria. This Quality Assurance Program includes:</p> <ul style="list-style-type: none"> (i) Section 2 and 7.1 address inspection of the waste received at the premises (prior to tipping) to ensure it only contains the wastes allowed by an Environment Protection Licence issued by the EPA; (ii) Section 8 addresses EPA reporting to ensure it only contains the wastes allowed by an Environment Protection Licence issued by the EPA; 	Compliant													

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Possum Brush Quarry

Condition No.	Development Consent 769/2009 - Condition	Verification	Comments	Compliance Status
			(iii) Section 7.2 describes documenting of all wastes received at the premises that contain wastes other than those approved above (including name and registration number of waste supplier, why the waste load did not comply, and the fate of that load of waste).	
2g	Prior to any wastes rejected by the Quality Assurance Program leaving the premises the proponent must obtain from the owner of such wastes details of where that waste will be disposed legally.	<ul style="list-style-type: none"> EPL 3393, condition O5.3, 26 May 2016 	No loads of wastes have been rejected since the load register has been established.	Not triggered
2h	The proponent must notify Greater Taree City Council and Great Lakes Council within 30 minutes of any rejected waste load leaving the premises, including the name and registration number of waste supplier, why the waste load was rejected, and the proposed fate of that load of waste.	<ul style="list-style-type: none"> EPL 3393, condition O5.4, 26 May 2016 	No wastes have been rejected since the load register has been established	Not triggered
2i	Any load of waste that is received at the premises, which does not comply with the types of waste allowed to be received at the premises, and has not been returned to the supplier, must be stockpiled separately at the premises. The EPA must be notified within 24 hours of receipt of any such load of waste, including details of why the waste is not permitted to be received and actions the licensee will take to lawfully dispose of such wastes.	<ul style="list-style-type: none"> EPL 3393, condition O5.5, 26 May 2016 	No wastes have been rejected since the load register has been established	Not triggered
2j	All residual waste by recycling operations conducted onsite (for example paper, cardboard, plastic, timber, steel) must be stored separately in such a manner that it does not cause windblown litter and must be regularly removed from the site for appropriate disposal or recycling. No such materials are permitted to be disposed at the premises.	<ul style="list-style-type: none"> EPL 3393, condition O5.6, 26 May 2016 	No residual waste by-products have been generated to date at the Possum Brush Quarry. However, the procedures for managing the by products are set out in the Quality Assurance Plan.	Not triggered
2k	The proponent must supply to the EPA annually with the Environment Protection Licence Annual Return a plan and table showing, as at the licence anniversary date: (i)The location of all waste stockpiles on the premises; (ii)The type of waste in each (iii)The height of each stockpile; iv) The amount of waste in each stockpile in tonnes; and (v)The total in tonnes and whether the limit of 10,000 tonnes has been exceeded.	<ul style="list-style-type: none"> EPA Annual Return EPL 3393 2014-2015 EPA Annual Return EPL 3393 2015-2016 	The management of waste materials was addressed in the 2014-2015 Annual Return with all relevant information incorporated in the EPL Annual Return.	Ongoing
3	Any soils accepted for beneficiation/recycling must not include organic material.		No soils have been received to the Possum Brush Quarry site.	Not triggered
4	The existing Environment Protection Licence issued by the EPA under the Protection of the Environment Operations Act 1997 must be amended to include the recycling plant. A copy of the	<ul style="list-style-type: none"> EPL 3393, 26 May 2016 	EPL 3393 was amended 26 May 2016 to include "Resource Recovery" of general waste. A copy of the EPL was. supplied to Council on 15 September 2015.	Compliant

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Condition No.	Development Consent 769/2009 - Condition	Verification	Comments	Compliance Status
	amended licence must be submitted to Council prior to the commencement of the operations.			
5	Separate metal recycling not resulting as a by-product of the break-up of reinforced concrete and the like will not be permitted.		Only steel within concrete is received and separated.	Compliant Ongoing

Attachment D

Environment Protection Licence – No.3393

EPL 3393	Condition	Verification	Comments	Compliance															
1	Administrative Conditions																		
A1	What the licence authorises and regulates																		
A1.1	<p>This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.</p> <p>Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.</p> <table border="1"> <thead> <tr> <th>Scheduled Activity</th> <th>Fee Based Activity</th> <th>Scale</th> </tr> </thead> <tbody> <tr> <td>Crushing, grinding</td> <td>Crushing, grinding</td> <td>> 100000 - 500000 T annual processing capacity</td> </tr> <tr> <td>Extractive activities</td> <td>Land-based extractive activity</td> <td>> 100000 - 500000 T annual capacity to extract, process or store</td> </tr> <tr> <td>Resource recovery</td> <td>Recovery of general waste</td> <td>Any general waste recovered</td> </tr> <tr> <td>Waste storage</td> <td>Waste storage - other types of waste</td> <td>Any other types of waste stored</td> </tr> </tbody> </table> <p>Note: Limits on resource recovery and waste storage are detailed in condition L3.1</p>	Scheduled Activity	Fee Based Activity	Scale	Crushing, grinding	Crushing, grinding	> 100000 - 500000 T annual processing capacity	Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store	Resource recovery	Recovery of general waste	Any general waste recovered	Waste storage	Waste storage - other types of waste	Any other types of waste stored		Annual production (sales) of quarry products from the Possum Brush Quarry, have not exceeded the scale of the approved scheduled activities.	Compliant Ongoing
Scheduled Activity	Fee Based Activity	Scale																	
Crushing, grinding	Crushing, grinding	> 100000 - 500000 T annual processing capacity																	
Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store																	
Resource recovery	Recovery of general waste	Any general waste recovered																	
Waste storage	Waste storage - other types of waste	Any other types of waste stored																	
A2	Premises or plant to which this licence applies																		
A2.1	<p>The licence applies to the following premises: Pacific Blue Metal Pty Ltd 113/115 Possum Brush Road, Possum Brush NSW 2430 LOT 66 DP 608957, LOT 3 DP 701903, LOT 109 DP 753195 Those areas of the above Lot & DPs as defined on the aerial Map titled "Pacific Blue Metal proposed EPL adjustment" dated 11/03/2016 (DOC16/139907 File EF13/3417).</p>		The "Possum Brush" Quarry operated by Pacific Blue Metal Pty Ltd is located at 13/115 Possum Brush Road on the Lots and DP's identified in EPL condition A2.1.	Compliant															

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Possum Brush Quarry

EPL 3393	Condition	Verification	Comments	Compliance					
A3	Other activities								
A3.1	This licence applies to all other activities carried on at the premises, including: Ancillary Activity- Bitumen mixing			Noted					
A4	Information supplied to the EPA								
A4.1	Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence. In this condition the reference to "the licence application" includes a reference to: a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.			Noted					
2	Discharges to Air and Water and Applications to Land								
P1	Location of monitoring/discharge points and areas								
P1.1	The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: center;">EPA ID No.</th> <th style="text-align: center;">Type of Monitoring/Discharge Point</th> <th style="text-align: center;">Location Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Stack</td> <td style="text-align: center;">Asphalt plant</td> </tr> </tbody> </table>	EPA ID No.	Type of Monitoring/Discharge Point	Location Description	1	Stack	Asphalt plant	Initial air quality monitoring of the emissions from the asphalt plant was required by the EPA in Environment Protection Licence 3393 Variation 1083017 condition M8.1 dated 15 April 2008. The emissions testing of total particulates from the asphalt plant was undertaken in December 2008 and it established that the concentration measured 3.8mg/m ³ was significantly less than the 50mg/m ³ limit specified in the <i>Protection of the Environment Operations Clean Air Regulation 2002</i> . The requirement for monitoring of emissions from the asphalt plant was discontinued following the initial monitoring imposed by the EPA, with conditions M8.1 and M8.2 removed from the Environment Protection Licence 3393 with Variation No. 1110571 dated 14 January 2010	Compliant COMPLETE
EPA ID No.	Type of Monitoring/Discharge Point	Location Description							
1	Stack	Asphalt plant							
P1.2	The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.		No application of solids or liquids to any utilisation area on the "Possum Brush" Quarry land has occurred.	Noted					

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Possum Brush Quarry

EPL 3393	Condition	Verification	Comments	Compliance						
P1.3	<p>The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or setting of limits for discharges of pollutants to water from the point.</p> <p>Water and land</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">EPA ID No.</th> <th style="text-align: center;">Type of Monitoring / Discharge Point</th> <th style="text-align: center;">Location Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2</td> <td>Discharge to waters Discharge water monitoring</td> <td>The discharge from Sediment Dam 3 as shown in Figure 2.1 of the EIS Sep 1997, ERM Mitchell McCotter This figure has been filed on DECCW file number 271458A2</td> </tr> </tbody> </table>	EPA ID No.	Type of Monitoring / Discharge Point	Location Description	2	Discharge to waters Discharge water monitoring	The discharge from Sediment Dam 3 as shown in Figure 2.1 of the EIS Sep 1997, ERM Mitchell McCotter This figure has been filed on DECCW file number 271458A2	<ul style="list-style-type: none"> 2015-2016 Annual Review dated 30 Sep 2016 	The EPL discharge Point 2 from Dam 3 is located as shown in the Environmental Impact Statement (dated 1997, and Annual Review Figure 2.1, dated September 2016.	Compliant
	EPA ID No.	Type of Monitoring / Discharge Point	Location Description							
2	Discharge to waters Discharge water monitoring	The discharge from Sediment Dam 3 as shown in Figure 2.1 of the EIS Sep 1997, ERM Mitchell McCotter This figure has been filed on DECCW file number 271458A2								
3	Limit Conditions									
L1	Pollution of waters									
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.	<ul style="list-style-type: none"> <i>Protection of the Environment Operations Act 1997, section 120</i> 	Analysis of water discharged from Dam 3 have demonstrated compliance with EPL 3393 condition L2.5 limits. (Note: Dam 3 is not within the approved extraction area of the quarry, but is within the EPL boundary.	Compliant						
L2	Concentration limits									
L2.1	For each monitoring/discharge point or utilisation area specified in the table/s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.	<ul style="list-style-type: none"> 		Noted						
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.		pH values for the water monitored at the Possum Brush Quarry discharge point have been within the specified criteria.	Compliant						
L2.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table/s.	<ul style="list-style-type: none"> 		Noted						
L2.4	<p>Air Concentration Limits</p> <p>Point 1</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Pollutant</th> <th style="text-align: center;">Units of Measure</th> <th style="text-align: center;">100%ile concentration limit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Solid particles</td> <td style="text-align: center;">mg/m³</td> <td style="text-align: center;">50</td> </tr> </tbody> </table>	Pollutant	Units of Measure	100%ile concentration limit	Solid particles	mg/m ³	50		Initial analyses of the stack emissions from the asphalt plant was undertaken during the first year of operations of the asphalt plant and established a correlation between the solid particles in the stack and the steam plume characteristics. The concentration of solid particles in the stack emissions were less than the nominated limit.	Compliant
	Pollutant	Units of Measure	100%ile concentration limit							
Solid particles	mg/m ³	50								

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EPL 3393	Condition	Verification	Comments	Compliance												
L2.5	<p>Water and/or Land Concentration Limits</p> <p>Point 2</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Pollutant</th> <th style="text-align: center;">Units of Measure</th> <th style="text-align: center;">100%ile concentration limit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Oil and Grease</td> <td style="text-align: center;">Visible</td> <td style="text-align: center;">No visible</td> </tr> <tr> <td style="text-align: center;">pH</td> <td style="text-align: center;">pH units</td> <td style="text-align: center;">6.5 – 8.5</td> </tr> <tr> <td style="text-align: center;">Total Suspended Solids</td> <td style="text-align: center;">mg/L</td> <td style="text-align: center;">50</td> </tr> </tbody> </table>	Pollutant	Units of Measure	100%ile concentration limit	Oil and Grease	Visible	No visible	pH	pH units	6.5 – 8.5	Total Suspended Solids	mg/L	50		Analysis of water discharged from Dam 3 demonstrated compliance with EPL 3393 condition L2.5 limits.	Compliant
Pollutant	Units of Measure	100%ile concentration limit														
Oil and Grease	Visible	No visible														
pH	pH units	6.5 – 8.5														
Total Suspended Solids	mg/L	50														
L3	Waste															
L3.1	<p>The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.</p> <p>Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.</p> <p>Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.</p> <p>This condition does not limit any other conditions in this licence.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Code</th> <th style="text-align: center;">Waste/Activity</th> <th style="text-align: center;">Description</th> <th style="text-align: center;">Other Limits</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">NA</td> <td>General or Specific exempted waste / Resource recovery Waste storage</td> <td>Waste that meets all the conditions of a resource recovery exemption under clause 51A of the POEO (Waste) Regulation 2005</td> <td style="text-align: center;">NA</td> </tr> <tr> <td style="text-align: center;">NA</td> <td>General solid waste (non-putrescible) / Resource recovery Waste storage</td> <td>Concrete, Bricks, Asphalt, Tiles, Building / Demolition Waste that does not contain asbestos as defined in the EPA's Waste Classification Guideline Part 1: Classifying Waste</td> <td style="text-align: center;">Total 10,000 tonnes per annum</td> </tr> </tbody> </table>	Code	Waste/Activity	Description	Other Limits	NA	General or Specific exempted waste / Resource recovery Waste storage	Waste that meets all the conditions of a resource recovery exemption under clause 51A of the POEO (Waste) Regulation 2005	NA	NA	General solid waste (non-putrescible) / Resource recovery Waste storage	Concrete, Bricks, Asphalt, Tiles, Building / Demolition Waste that does not contain asbestos as defined in the EPA's Waste Classification Guideline Part 1: Classifying Waste	Total 10,000 tonnes per annum	<ul style="list-style-type: none"> Pacific Blue Metal Recycling Plant Quality Assurance Plan, Version 1 	<p>All wastes received to the "Possum Brush" Quarry site have been building and demolition waste and waste asphalt.</p> <p>All loads received at the "Possum Brush" Quarry site are checked on arrival and rechecked before acceptance for recycling in accordance with the Pacific Blue Metal Recycling Plant Quality Assurance Plan. No waste material that did not comply with the requirements in EPL 3393 condition L3.1 or Development Consent 769/2009 condition 2e, have been accepted at the "Possum Brush" Quarry site</p> <p>A total of 765.36 tonnes was imported to the quarry site during 2015-2016.</p>	Compliant Ongoing
Code	Waste/Activity	Description	Other Limits													
NA	General or Specific exempted waste / Resource recovery Waste storage	Waste that meets all the conditions of a resource recovery exemption under clause 51A of the POEO (Waste) Regulation 2005	NA													
NA	General solid waste (non-putrescible) / Resource recovery Waste storage	Concrete, Bricks, Asphalt, Tiles, Building / Demolition Waste that does not contain asbestos as defined in the EPA's Waste Classification Guideline Part 1: Classifying Waste	Total 10,000 tonnes per annum													

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Possum Brush Quarry

EPL 3393	Condition	Verification	Comments	Compliance																		
L3.2	The authorised amount of waste permitted on the premises must not exceed 10,000 tonnes at any time.		The amount of waste received for recycling and stored on the "Possum Brush" Quarry site at any time, has not exceeded 10,000 tonnes.	Compliant Ongoing																		
L4	Noise limits																					
L4.1	<p>Noise generated at the premises must not exceed the noise limits presented in the Table below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Location</th> <th style="text-align: center;">Day/Evening</th> <th style="text-align: center;">Night</th> </tr> <tr> <td></td> <th style="text-align: center;"><i>LAeq(15 min)</i></th> <th style="text-align: center;"><i>LA(max)</i></th> </tr> </thead> <tbody> <tr> <td>R1 – 5 St Peters Close</td> <td style="text-align: center;">39</td> <td style="text-align: center;">45</td> </tr> <tr> <td>R2 – 175 Possum Brush Road</td> <td style="text-align: center;">38</td> <td style="text-align: center;">45</td> </tr> <tr> <td>R3 – 55 Possum Brush Road</td> <td style="text-align: center;">37</td> <td style="text-align: center;">45</td> </tr> <tr> <td>All other residences</td> <td style="text-align: center;">35</td> <td style="text-align: center;">45</td> </tr> </tbody> </table> <p><i>Note: The LAeq limits apply at all times, that is, Daytime, Evening and Night Time Operations.</i></p> <p>The LAmax limits apply to the "night-time" operations.</p> <p>Note: Receiver Locations are shown in the plan titled Figure 2 Location of Nearest Sensitive Receptors, which is found within the report prepared by Heggies titled "Pacific Blue Metal Quarry Noise Compliance Assessment Asphalt Plant Night-time Operations", dated 14 April 2010. This report has been filed on DECCW file LIC08/1650-02.</p>	Location	Day/Evening	Night		<i>LAeq(15 min)</i>	<i>LA(max)</i>	R1 – 5 St Peters Close	39	45	R2 – 175 Possum Brush Road	38	45	R3 – 55 Possum Brush Road	37	45	All other residences	35	45	<ul style="list-style-type: none"> • Possum Brush Quarry Noise Monitoring, Spectrum Acoustics: <ul style="list-style-type: none"> ○ Sep 2015 ○ Oct 2015 ○ Nov 2015 ○ Oct 2016 	Noise levels measured during the reporting period (17 September 2015, 20 October 2015 and 24 November 2015) satisfied the LAeq 15 min criteria at the nominated Locations 1, 2 and 3, (i.e. the contributions from the quarry were less than the nominated LAeq15Minute level. The 45LA _{max} level was satisfied for night time measurements).	Compliant
Location	Day/Evening	Night																				
	<i>LAeq(15 min)</i>	<i>LA(max)</i>																				
R1 – 5 St Peters Close	39	45																				
R2 – 175 Possum Brush Road	38	45																				
R3 – 55 Possum Brush Road	37	45																				
All other residences	35	45																				
L4.2	<p>For the purpose of the Noise Limits specified in the table above:</p> <p>a) Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sunday and Public Holiday's.</p> <p>b) Evening is defined as the period 6pm to 10pm.</p> <p>c) Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sunday and Public Holiday's.</p>			Noted																		
L4.3	<p>The noise limits specified in the table above apply under all meteorological conditions except the following:</p> <p>a) Wind speeds greater than 3m/s at 10m above ground level</p> <p>b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or</p> <p>c) Stability category G temperature inversion conditions.</p>	<ul style="list-style-type: none"> • Possum Brush Quarry Noise Monitoring, Spectrum Acoustics: <ul style="list-style-type: none"> ○ Sep 2015 ○ Oct 2015 ○ Nov 2015 ○ Oct 2016 	The report by Spectrum Acoustics (Appendix 4) identifies that noise levels measured, were measured under appropriate meteorological conditions.	Compliant																		
L4.4	For the purposes of the condition above, stability category temperature inversion conditions are to be determined by the	<ul style="list-style-type: none"> • NSW Industrial Noise Policy, Part E4 of Appendix E 	Temperature inversions are not a feature of the area near the Possum Brush Quarry given its close proximity to the coast	Noted																		

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EPL 3393	Condition	Verification	Comments	Compliance
	sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.			
L4.5	For the purposes of determining the noise generated at the premises a Class 1 or 2 noise monitoring equipment as defined by AS IEC61672.1-2004 and AS IEC61672.2-2004, or other noise monitoring equipment accepted by the EPA in writing, must be used.	<ul style="list-style-type: none"> • Possum Brush Quarry Noise Monitoring, Sep 2015, Spectrum Acoustics • Possum Brush Quarry Noise Monitoring, Oct 2015, Spectrum Acoustics 	A third octave band Bruel and Kjaer sound level meter (Type 1) was used by Spectrum Acoustics for the noise monitoring programs conducted in September and October 2015.	Compliant
L4.6	To determine compliance: a) with the Leq(15 minute) noise limits in the table above, the noise monitoring equipment must be located: (i) within 30 metres of a dwelling façade where any dwelling on the property is situated more than 30 metres from the property boundary that is closest to the premises; (ii) approximately on the boundary where any dwelling is situated 30 metres or less from the property boundary that is closest to the premises; (iii) within approximately 50 metres of the boundary of a National Park or a Nature Reserve. b) the noise monitoring equipment must be located in a position that is: (i) at the most affected point at a location where there is no dwelling at the location; or (ii) at the most affected point within an area at a location prescribed by item (a) of this condition.	<ul style="list-style-type: none"> • Possum Brush Quarry Noise Monitoring, Nov 2015, Spectrum Acoustics • Possum Brush Quarry Noise Monitoring, Oct 2016, Spectrum Acoustics 	<p>Identification of the noise monitoring locations is provided in Table 1 and Figure 1 of the Spectrum Acoustics reports. The detailed location of the noise monitoring equipment at each location was not provided in the noise reports prepared by Spectrum Acoustics.</p> <p>It is recommended that Spectrum Acoustics report the noise monitoring equipment location in future reports in accordance with the requirements in EPL condition L4.6 and provide comment on the requirements in Development Consent 283/97 Appendix 3 Noise Compliance Assessment.</p>	Administrative Non-Compliant
L4.7	A breach of this Environment Protection Licence will still occur where noise generated from the premises in excess of the appropriate limit specified in this licence is detected: a) in an area at a location other than an area prescribed by the condition above; and/or b) at a point other than the most affected point at a location.			Noted
L4.8	For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.	<ul style="list-style-type: none"> • NSW Industrial Noise Policy, Part E4 of Appendix E 		Noted
L5	Blasting			
L5.1	The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	<ul style="list-style-type: none"> • Blast Reports, Precision Drill and Blast P/L, 2014 to 2016 	All blasts at the "Possum Brush" Quarry have been monitored and no airblast dB(L) levels exceeded the 120dB(L) criteria.	Compliant

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EPL 3393	Condition	Verification	Comments	Compliance
L5.2	The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	<ul style="list-style-type: none"> Blast Reports, Precision Drill and Blast P/L, 2014 to 2016 	All airblast dB(L) measured levels from the "Possum Brush" Quarry were less than 115dB(L). Highest airblast level recorded was 105.5dB(L).	Compliant
L5.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	<ul style="list-style-type: none"> Blast Reports, Precision Drill and Blast P/L, 2014 to 2016 	All measured ground vibration levels were less than 10.0mm/sec. Highest level recorded = 2.66mm/sec.	Compliant
L5.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	<ul style="list-style-type: none"> Blast Reports, Precision Drill and Blast P/L, 2014 to 2016 	All measured levels were less than 5mm/sec. Highest level recorded = 2.66mm/sec.	Compliant
L5.5	To determine compliance with the blasting limits specified in the above four (4) conditions: (a) Airblast overpressure and ground vibration levels must be measured at any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital for all blasts carried out in or on the premises; and (b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard 2187.2 of 1993.	<ul style="list-style-type: none"> AS 2187.2-2006: Explosives – storage, and use – Part 2: Use of Explosives 	<p>(a) Details of measurement locations are not provided on the blast reports (only the residence address). The location of the blast monitors should be included in the monitoring reports</p> <p>(b) Blast monitoring is conducted using Texcel monitors.</p>	Administrative Non-Compliance
L5.6	Blasting operations at the premises may only take place between 9:00am-3:00pm Monday to Friday. Blasting is not permitted on public holidays. Blasting outside the hours specified above can only take place with the written approval of the EPA.		All blasts at the "Possum Brush" Quarry have occurred during the specified hours of operations on Monday to Friday, specified in EPL 3393 condition L5.6.	Compliant
L5.7	Offensive blast fume must not be emitted from the premises.		No offensive blast fume was emitted from blasts initiated during 2016.	Compliant
L6	Hours of operation			
L6.1	Construction work at the premises must only be conducted between 7am to 6pm Monday to Friday and between 8am to 1pm Saturday with no works on Sunday or public holidays.		All construction work has been undertaken at the "Possum Brush" Quarry site within the approved hours of operation.	Compliant

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EPL 3393	Condition	Verification	Comments	Compliance
L6.2	<p>All other activities at the premises must only be carried out between the hours detailed below: <i>Hours of Operation for General Quarry Operations</i> a) All quarrying activities must be conducted between 6.30am and 6pm Monday to Friday, and between 7am and 3pm Saturdays, except as detailed below. <i>Permissible Times for Vehicles Entering the Premises</i> b) Trucks used for the transport of product are not permitted to enter the premises before 6.15am Monday to Friday or 6.45am Saturdays. In respect of these trucks entering the premises, the licensee must erect and maintain a gate across the site access road 200 metres from the product stockpile area or in another area agreed by Council, which must not be opened prior to 6.30am Monday to Friday or 7am Saturday to allow access to the stockpile. c) No other trucks or heavy machinery are to enter the premises prior to 6.30am Monday to Friday or prior to 7am Saturdays. d) Loaded trucks or heavy machinery are not permitted to enter the premises after 6pm Mon to Fri or after 3pm Sat. e) Unloaded trucks or heavy machinery, except those described in clause f) and i) below, are not permitted to enter the premises after the hours of 6pm Monday to Friday and after 3pm Saturdays. f) Trucks containing returned loads of product and trucks owned or operated by the licensee, for licensed activities, and normally garaged at the premises, may enter the premises after the hours of 6pm Monday to Friday and after 3pm Saturdays only in the following circumstances: i. The truck left the premises loaded with product prior to 6pm Monday to Friday or prior to 3pm Saturday. ii. The truck travelled directly to the delivery site by the most direct route. iii. The truck travelled directly back to the premises from the delivery site by the most direct route. iv. Records must be kept for all trucks returning to the premises after the hours of 6pm Monday to Friday and 3pm Saturdays which records the time the truck left the premises, the load carried, the delivery site, the customer details, and the time the truck returned to the premises. v. No trucks are permitted to enter the premises between 12 midnight Saturdays and 6:15 am Monday. <i>Permissible Times for Vehicles Leaving the Premises</i> g) No trucks or heavy machinery are to leave the premises prior to 6.30am Monday to Friday or 7am Saturdays.</p>	<ul style="list-style-type: none"> • Email to EPA re Entry of Trucks to the Quarry Site before approved Operating Hours, 8 Sep 2015 • Email from EPA re Request for Incident Report re Hours of Operation Breach, 3 Nov 2015 • Report to EPA re Incident Report, 8 Nov 2015 	<p>Documentation Records of Operating Hours (a) All quarry operations have been undertaken within the nominated hours of operation' (b) A gate is located in the fence line across the entrance to the product stockpile and no trucks entered the stockpile area prior to 6.30am Monday to Friday or 7am Saturday between April and October 2016; (c) No other trucks or other machinery has entered the premises prior to nominated hours. (d) No loaded trucks or heavy machinery have been permitted to enter the premises after 6pm Monday to Friday or after 3pm Saturdays. This is monitored by CCTV installed on site. (e) No unloaded trucks or heavy machinery have been permitted to enter the premises after 6pm Monday to Friday or after 3pm Saturdays. This is monitored by CCTV installed on site. (f) This condition has been complied with since this condition was imposed (g) No trucks or heavy machinery are scheduled to leave the premises prior to 6.30am Monday to Friday or 7am Saturdays.</p>	Compliant

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EPL 3393	Condition	Verification	Comments	Compliance
	<p><i>Hours of Operation for Asphalt Plant</i> <i>Note: Greater Taree City Council has issued development consent for the asphalt plant to operate on a 24 hours per day basis under certain circumstances. The conditions below reflect that consent.</i></p> <p>h) The exception to operational hours described in clauses a) to g) above is the operational hours of the asphalt plant in the circumstances set out below:</p> <p>i. The asphalt plant and associated truck movements are permitted to operate 24 hours per day during the period 6.30am Monday to 10pm Friday for a maximum of 60 days in any one calendar year. (For the purposes of this licence the calendar year is the same as the reporting period year.)</p> <p>ii. The licensee must notify the Manager Hunter Region of the EPA when each night operations will be undertaken, by email at hunter.region@epa.nsw.gov.au, prior to the night time operations being undertaken.</p>	<ul style="list-style-type: none"> • EPL 3393 Variation 1539774 (dated 26 May 2016) • Emails to EPA Manager of Hunter Region re Asphalt Plant Night-time Operation: <ul style="list-style-type: none"> ○ 28 Jul 2016 ○ 11, 12 and 16 Aug 2016 ○ 24, 28 and 31 Oct 2016 	<p>The asphalt plant was developed and is operated generally in compliance with the conditions of this Development Consent and EPL 3393 between April and October 2016.</p> <p>ii. During April to October 2016 the asphalt plant night work operations were conducted on seven (7) occasions. The EPA Manager of Hunter Region was notified via email in accordance with EPL 3393 condition L6.2(h) on each occasion.</p>	Compliant
	<p>i) Trucks containing returned loads of product and trucks owned or operated by the licensee which are normally garaged at the premises and involved in the delivery of asphalt during the 60 days per year of night time asphalt plant operations may enter the premises after 10pm Friday only in the following circumstances;</p> <p>i. The truck left the premises loaded with product prior to 10pm Friday.</p> <p>ii. The truck travelled directly to the delivery site by the most direct route.</p> <p>iii. The truck travelled directly back to the premises from the delivery site by the most direct route.</p> <p>iv. Records must be kept for all trucks returning to the premises after 10pm Friday which records the time the truck left the premises, the load carried, the delivery site, the customer details, and the time the truck returned to the premises.</p> <p>Note: These records may take the form of weighbridge records and security camera date stamps.</p> <p>v. No trucks are permitted to enter the premises between 12 midnight Saturdays and 6:15 am Monday.</p> <p><i>Hours of Operation for Maintenance Activities</i></p> <p>j) Maintenance of equipment strictly in the workshop or plant areas is permitted between the hours of 6am to 9pm Monday to Saturday. Any maintenance carried out within these hours but outside the quarrying</p>	<ul style="list-style-type: none"> • Records of Hours of Operation July 2015 to September 2016 	<p>No trucks returned loaded to the quarry outside approved hours of operation during 2015 and 2016 period.</p> <p>Records of hours of operation related to truck movements, and maintenance activities were sighted. No trucks entered the Possum Brush Quarry premises between 12 midnight Saturdays and 6:15 am Monday.</p>	Compliant

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EPL 3393	Condition	Verification	Comments	Compliance
	<p>activities hours set out in clause a) must be inaudible at any residence (except residences owned by the licensee).</p> <p><i>No Activities on Sundays or Public Holidays</i></p> <p>k) No works, maintenance, truck or machinery movements in or out of the premises are permitted on Sundays or Public Holidays.</p> <p><i>Extension of Hours of Operation in emergency and other circumstances</i></p> <p>l) The hours of operation of the quarrying activities as set out in clause a) above can only be extended for an emergency or for circumstances involving the upgrading of the Pacific Highway, on a short term basis, with Council approval. A licence variation is not required in these circumstances under the following conditions:</p> <p>i. The Licensee must notify the EPA Manager Hunter Region by facsimile on (02) 49086810 of the intention to apply to council to extend the quarry's operational hours and the circumstances surrounding the application.</p> <p>ii. The licensee must notify the EPA Manager Hunter Region by facsimile on (02) 49086810 of the council decision in written form.</p> <p>iii. The licensee must keep a log of all such extensions for inspection if required.</p>			
L6.3	<p>Trucks associated with the waste recycling activities must not enter the premises prior to 07:00 am</p> <p><i>Note: The necessity for this condition will be assessed by the EPA after it has been determined if trucks at the premises are causing exceedances of the LA_{MAX} noise limits and/or if all feasible and reasonable noise ameliorative works have been undertaken.</i></p>		All trucks delivering waste for recycling to the "Possum Brush" Quarry arrived after 7:00am between 2015 and 2016.	Compliant
L7	Potentially offensive odour			
L7.1	<p>The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.</p> <p><i>Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.</i></p>		No offensive odour(s) were noted during the site inspection conducted for the audit in October 2016. The quarry was in full operation at the date of the audit (October 2016).	Compliant
4	Operating Conditions			

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EPL 3393	Condition	Verification	Comments	Compliance
O1	Activities must be carried out in a competent manner			
O1.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.		The activities related to processing, handling, movement and storage of materials and substances on the "Possum Brush" Quarry site were observed to be carried out in a competent manner. The treatment, storage, processing, reprocessing, transport and disposal of waste (including recycling) at the "Possum Brush" Quarry was also observed to be conducted in a competent manner.	Compliant Ongoing
O2	Maintenance of plant and equipment			
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner.		All plant and equipment observed at the "Possum Brush" Quarry appeared to be maintained in a proper and efficient condition at the on-site Maintenance Workshop and was operated in a proper and efficient manner.	Compliant Ongoing
O3	Dust			
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.		The location of the "Possum Brush" Quarry, the sealed access road and regular internal road watering, mitigates dust generation and dispersion relating to the quarry activities.	Compliant
O3.2	Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.		All trucks observed during the audit site inspection had their loads covered prior to leaving the "Possum Brush" Quarry site.	Compliant
O4	Processes and management			
O4.1	Stormwater from all areas of the premises, which has the potential to mobilise sediments and other material must be controlled and diverted through the appropriate erosion and sediment control and or pollution control measures/structures.		Stormwater from areas disturbed for extraction activities within the quarry, is managed within the extraction area with a series of sediment control ponds. Surface water runoff reports to Dam 1. Water in Dam 1 provides for settlement of sediment and the water is reused on-site for dust control and activities in the process plant. Any overflow from Dam 1 flows to Dam 3 where it is retained. The water in Dam 3 was observed as clear and compliant with the EPL water quality criteria. No discharge occurs from Dam 3 except under extreme weather conditions and the discharge is monitored in accordance with EPL conditions P1.3 and M2.2.	Compliant Ongoing
O4.2	Erosion and sediment control and/or pollution measures and/or structures to capture stormwater from all areas of the premises must be installed and maintained.	<ul style="list-style-type: none"> • <i>Managing Urban Stormwater: Soils and Construction Manual</i> 	Erosion and sediment controls within disturbed areas within the extraction area are considered to conform with the requirements of the <i>Managing</i>	Compliant Ongoing

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EPL 3393	Condition	Verification	Comments	Compliance
		Volume 2E Mines and Quarries, DECC 2008.	<i>Urban Stormwater: Soils and Construction Manual</i> Volume 2E Mines and Quarries.	
O4.3	All above ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.	<ul style="list-style-type: none"> AS1940:2004 - The storage of flammable and combustible liquids 	Hydrocarbon storage in aboveground tanks on site is considered satisfactory with bunding consistent with AS 1940-2004.	Compliant
O4.4	Bunds must: a) have walls and floors constructed of impervious materials; b) be of sufficient capacity to contain 110% of the volume of the tank (or 110% volume of the largest tank where a group of tanks are installed); c) have floors graded to a collection sump; and d) not have a drain valve incorporated in the bund structure, or be constructed and operated in a manner that achieves the same environmental outcome.	<ul style="list-style-type: none"> AS1940:2004 - The storage of flammable and combustible liquids 	The concrete bund around the covered bulk fuel storage area is sloped to the north-west corner of the bund and is fitted with a pipe (and valve). The valve on the pipe is locked and procedures have been developed for any water collecting within the bund, to ensure that all contaminated water is managed to eliminate the potential for release from the site.	Compliant
O5	Waste management			
O5.1	The Licensee must ensure that any waste received at the premises is assessed and classified in accordance with the EPA's Waste Classification Guidelines as in force from time to time.	<ul style="list-style-type: none"> Waste Classification Guideline Part 1, EPA Development Consent 769/2009 condition 2e. EPL 3393 condition L3.1 and O5 	Waste accepted to the "Possum Brush" Quarry is assessed and classified in accordance with the EPA Waste Classification Guideline Part 1. All waste accepted has satisfied the criteria described in EPL 3393 condition L3.1 and Development Consent 769/2009 condition 2e.	Compliant
O5.2	The Licensee must have in place at all times a quality assurance program to ensure only the types of wastes permitted above are received at the premises. This quality assurance program must include: a. Inspection of the waste received at the premises (prior to tipping) to ensure it only contains the wastes allowed by this licence; b. Inspection of the waste after tipping at the premises to ensure it only contains the wastes allowed by this licence; c. Documenting all loads of waste that are received at the premises that contain wastes other than those approved above (including name and registration number of waste supplier, why the waste load did not comply, and the fate of that load of waste).	<ul style="list-style-type: none"> Recycling Plant Quality Assurance Program, Version 1 	A Quality Assurance Program has been prepared by Pacific Blue Metal and consultation has occurred with the EPA. The Quality Assurance Program includes: a. section 2.1 and section 7 address inspection of the waste received at the premises (prior to tipping) to ensure it only contains the wastes allowed by this licence; b. section 2.2 addresses inspection of the waste after tipping at the premises to ensure it only contains the wastes allowed by this licence; c. section 2.2 addresses documenting all loads of waste received at the premises that contain wastes other than those approved, in the Load Register.	Compliant
O5.3	Prior to any wastes rejected by the Quality Assurance Program leaving the premises the Licensee must obtain from the owner of such wastes details of where that waste will be disposed legally.		Any waste not accepted at the "Possum Brush" Quarry has been taken from the quarry site by the waste owner to a licenced disposal site.	Compliant Ongoing
O5.4	The Licensee must notify Greater Taree City Council and Great Lakes Council within 30 minutes of any rejected waste load leaving the premises, including the name and registration		No rejected waste has been accepted on the "Possum Brush" Quarry site to date.	Not triggered

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EPL 3393	Condition	Verification	Comments	Compliance
	number of waste supplier, why the waste load was rejected, and the proposed fate of that load of waste.			
O5.5	Any load of waste that is received at the premises, which does not comply with the types of waste allowed to be received at the premises, and has not been returned to the supplier, must be stockpiled separately at the premises. The EPA must be notified within 24 hours of receipt of any such load of waste, including details of why the waste is not permitted to be received and actions the licensee will take to lawfully dispose of such wastes.		No non-compliant waste has been received at Possum Brush Quarry to date.	Not triggered
O5.6	All residual waste by-products from the waste recycling operations conducted on-site (for example paper, cardboard, plastic, timber, steel) must be stored separately in such a manner that it does not cause windblown litter and must be regularly removed from the site for appropriate disposal or recycling. No such materials are permitted to be disposed at the premises.		No residual waste by-products have been produced at the Possum Brush Quarry to date.	Not triggered
5	Monitoring and Recording Conditions			
M1	Monitoring records			
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	<ul style="list-style-type: none"> • Annual Return 17 Aug 2015 to 16 Aug 2016 	Monitoring results required under EPL 3393 have been reported in the EPA Annual Return.	Noted
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.		All monitoring records are kept at the "Possum Brush" Quarry Administration Office and are available on site for inspection if requested.	Compliant
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.		Sampling records collected for the purposes of this EPL 3393 have the required information recorded and kept on file.	Compliant
M2	Requirement to monitor concentration of pollutants discharged			
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure,		Monitoring has occurred as required for the parameters specified in EPL 3393 condition M2.2. Two overflow events occurred during 2016 from Dam 3. All required information was recorded.	Compliant


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EPL 3393	Condition	Verification	Comments	Compliance													
	and sample at the frequency, specified opposite in the other columns:																
M2.2	Water and/ or Land Monitoring Requirements Point 2	<ul style="list-style-type: none"> Analytical Report M161057 MidCoast Water Laboratory, 2015-2016 	Water samples collected by Pacific Blue Metal from EPA Point 2 to satisfy the EPL 3393 conditions have been analysed by MidCoast Water Laboratory, for the nominated parameters.	Compliant													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Pollutant</th> <th style="text-align: center;">Units of Measure</th> <th style="text-align: center;">Frequency</th> <th style="text-align: center;">Sampling Method</th> </tr> </thead> <tbody> <tr> <td>Oil and Grease</td> <td>Visible</td> <td rowspan="3" style="text-align: center;">Each overflow event</td> <td>Visual inspection</td> </tr> <tr> <td>pH</td> <td>pH units</td> <td rowspan="2" style="text-align: center;">Grab sample</td> </tr> <tr> <td>TSS</td> <td>mg/L</td> </tr> </tbody> </table>				Pollutant	Units of Measure	Frequency	Sampling Method	Oil and Grease	Visible	Each overflow event	Visual inspection	pH	pH units	Grab sample	TSS	mg/L
	Pollutant				Units of Measure	Frequency	Sampling Method										
	Oil and Grease				Visible	Each overflow event	Visual inspection										
pH	pH units	Grab sample															
TSS	mg/L																
M3	Testing methods - concentration limits																
M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.	<ul style="list-style-type: none"> Approved Methods for the Sampling and Analysis of Water Pollutants in NSW, Mar 2004 Analytical Report M161057 MidCoast Water Laboratory, 9 Jun 2016 	Analysis of water samples has been conducted by MidCoast Water Laboratory generally in accordance with the EPA Approved Methods: <ul style="list-style-type: none"> pH – APHA 4500H+B TSS – APHA 2540D 	Compliant													
M4	Weather monitoring																
M4.1	A meteorological weather station must be maintained at the premises so as to be capable of continuously monitoring the parameters specified in the condition below. <i>Note: For the purposes of this condition and noise limit conditions it has been agreed that the meteorological weather station located at the Failford Quarry is acceptable for use and the weather conditions at Failford Quarry are deemed identical to those at the premises.</i>		Meteorological data used for assessment of noise, air and blast has been collected at Failford Quarry to the date of this audit (October 2016). This arrangement has been supported by the EPA. Possum Brush Quarry is planning the installation of a meteorological station on site in early 2017.	Compliant													
M4.2	For each monitoring point specified in the table below the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns.																
	Parameter	Units of Measure	Frequency	Averaging Period	Sampling Method												
	Rainfall	mm	Continuous	1 hour	AM-4												
	Wind speed @10m	m/s		15 min	AM-2 and AM-4												
	Wind Direction @ 10m	Degrees		15 min	AM-2 and AM-4												
	Temperature @ 2m	°C		15 min	AM-4												
Temperature @ 10m	°C	15 min		AM-4													
			The meteorological station to be installed at the "Possum Brush" Quarry site will include the specified parameters in M4.2 (communicated by S Tyack during the October 2017 IEA).	In progress													

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EPL 3393	Condition			Verification		Comments	Compliance
	Sigma-Theta @ 10m	°C		15 min	AM-2 and AM-4		
	Siting	-	-	-	AM-1 and AM-4		
	Measurement	-	-	-	AM-2 and AM-4		
M5	Recording of pollution complaints						
M5.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.			<ul style="list-style-type: none"> Complaints Register Possum Brush Quarry Apr to Oct 2016 		Only one complaint was received on 23 June 2016 for the "Possum Brush" Quarry between April and October 2016, related to truck braking noise at the intersection of Possum Brush Road and the Pacific Highway.	Noted
M5.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken, the reasons why no action was taken.			<ul style="list-style-type: none"> Complaints Register Possum Brush Quarry Apr to Oct 2016 Complaints Sheet Record No. 10/15-16 		The Pacific Blue Metal "Possum Brush" Quarry Complaints Sheet Record lists: <ul style="list-style-type: none"> date and time of the complaint; method by which the complaint was made; personal details of the complainant which were provided by the complainant; nature of the complaint; action taken by the licensee in relation to the complaint and follow-up contact with the complainant 	Compliant
M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.					All complaints records are retained in the "Possum Brush" Quarry Administration Office.	Compliant
M5.4	The record must be produced to any authorised officer of the EPA who asks to see them.						Noted
M6	Telephone complaints line						
M6.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.					The "Possum Brush" Quarry operates a complaints telephone number 02 6554 3597.	Compliant
M6.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.					The contact number is provided to the Community Consultative Committee members and surrounding neighbours, and the complaints line is advertised on the front gate to the quarry.	
M6.2	The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.						Noted
M7	Other monitoring and recording conditions						
	Requirement to Monitor Noise						

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EPL 3393	Condition	Verification	Comments	Compliance
M7.1	To determine compliance with the noise limits specified in this licence, attended noise monitoring must be undertaken in accordance with the requirements of conditions titled "Noise limits": a) at each one of the locations listed in the noise limits table; b) annually beginning 1 January each year; c) occur at the time of year when noise levels are expected to be highest, that is, generally winter conditions; d) occur at a time corresponding to usual or busy quarry activities; e) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy; and f) occur at a time corresponding to "normal" or above average production conditions and truck movements.	<ul style="list-style-type: none"> • Noise Monitoring Reports, Spectrum Acoustics: <ul style="list-style-type: none"> ○ 17 September 2015 ○ 13 Oct 2015 ○ 23 October 2015 ○ 24 November 2015 ○ 23 Nov 2016 	The noise monitoring was undertaken by Spectrum Acoustics on 17 September, 20 October (night-time) and 24 November 2015 (evening), and in October/November 2016.	Compliant
M7.2	The requirement to continue this monitoring will be assessed upon request by the licensee and after several noise compliance tests have been conducted.			Noted
6	Reporting Conditions			
R1	Annual return documents			
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data, 7. a Statement of Compliance - Environmental Management Systems and Practices; and 8. a Statement of Compliance - Environmental Improvement Works. At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.	<ul style="list-style-type: none"> • Annual Return 17 Aug 2015 to 16 Aug 2016 	The EPA Annual Return was submitted to the EPA for the period 17 August 2014 to 16 August 2015. The 2015-2016 Annual Return is due for submission to the EPA by 14 October 2016.	Compliant Ongoing
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below. <i>Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.</i>			Noted
R1.3	Where this licence is transferred from the licensee to a new licensee:		EPL 3393 has not been transferred to a new licensee.	Not triggered

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EPL 3393	Condition	Verification	Comments	Compliance
	<p>a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and</p> <p>b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.</p> <p><i>Note: An application to transfer a licence must be made in the approved form for this purpose.</i></p>			
R1.4	<p>Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:</p> <p>a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or</p> <p>b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.</p>		The EPL 3393 has not been surrendered or revoked.	Not triggered
R1.5	The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60days after the date the transfer was granted (the 'due date').	<ul style="list-style-type: none"> Annual Return 17 Aug 2015 to 16 Aug 2016 	The EPL 3393 Anniversary Date is 17 August. Annual Returns have been prepared and submitted to the EPA within 60 days of this Anniversary Date each year. The Annual Return for 2014 – 2015 was submitted on 18 September 2015 (i.e. within the 60day period).	Compliant Ongoing
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.		All EPA Annual Returns are filed and retained in the "Possum Brush" Quarry Administration Office.	Compliant Ongoing
R1.7	<p>Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:</p> <p>a) the licence holder; or</p> <p>b) by a person approved in writing by the EPA to sign on behalf of the licence holder.</p>	<ul style="list-style-type: none"> Annual Return 17 Aug 2015 to 16 Aug 2016 	The Statements of Compliance and the Monitoring and Complaints Summary have been certified and signed by the licence holder Pacific Blue Metal Pty Ltd.	Compliant Ongoing
R1.8	<p>The licensee must supply annually with the Environment Protection Licence Annual Return a plan and table showing as at the licence anniversary date:</p> <ol style="list-style-type: none"> The location of all waste stockpiles on the premises; The type of waste in each stockpile; The height of each stockpile; The amount of waste in each stockpiles in tonnes; and The total amount of waste in all stockpiles in tonnes and whether the limit of tonnes has been exceeded. 	<ul style="list-style-type: none"> Stockpile Volumetric Survey Plans, 10 Oct 2015 Waste Stockpile Data, 2015 Annual Return 	<p>The Annual Return included a survey plan and table showing:</p> <ol style="list-style-type: none"> The location of all waste stockpiles on the premises; The type of waste in each stockpile; The height of each stockpile; The amount of waste in each stockpiles in tonnes; and 	Compliant Ongoing

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EPL 3393	Condition	Verification	Comments	Compliance
			5. The total amount of waste in all stockpiles in tonnes and whether the limit of tonnes has been exceeded.	
R2	Notification of environmental harm			
	<i>Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.</i>			
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.		No notifiable incidents occurred during the reporting period.	Not triggered
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.			Noted
R3	Written report			
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	<ul style="list-style-type: none"> Email from EPA re Early Entry of Trucks to the Possum Brush Quarry Site, 3 Nov 2015 	<p>The EPA emailed Pacific Blue Metal on 3 November 2015 requesting details of the incident that occurred on 5 September 2015 regarding the entry of two Cement Australia delivery trucks to the Possum Brush Quarry site at 6.40am (i.e. before 7:00am).</p> <p>Delivery of the written report was requested before 5:00pm on 13 November 2015).</p>	Noted
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	<ul style="list-style-type: none"> Report re Early Entry of Trucks to the Possum Brush Quarry Site, 4 Nov 2015 	Pacific Blue Metal supplied the requested report on Early Entry of Trucks to the "Possum Brush" Quarry Site, on 4 November 2015.	Compliant
R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;	<ul style="list-style-type: none"> Email from EPA re Early Entry of Trucks to the Possum Brush Quarry Site, 3 Nov 2015 	The EPA request related to the early entry of trucks to the "Possum Brush" Quarry site on 5 September 2015 was generally consistent with these requirements.	Noted

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EPL 3393	Condition	Verification	Comments	Compliance
	f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.			
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	<ul style="list-style-type: none"> EPA Letter re Official Caution Related to the Truck Entry Event, 10 Feb 2016 	No further request for information was received from the EPA. The EPA issued an Official Caution to Pacific Blue Metal on 10 February 2016.	Noted
R4	Other reporting conditions			
R4.1	The licensee must supply, with each Annual Return, a Noise Monitoring Report which details the findings of the annual noise monitoring required by this licence. Where any of the noise limits detailed in this licence were exceeded during the monitoring, the report must also detail the reason for the non-compliance and make recommendations as to measures that will be employed to ensure noise limits are met at all times.		The noise monitoring reports prepared by Spectrum Acoustics were provided to the EPA and attached to the Annual Return.	Compliant
R4.2	The licensee must supply, with each Annual Return, a Blast Monitoring Report which must include the following information relating to each blast carried out within the premises during the reporting period covered by the Annual Return: (a) the date and time of the blast; (b) the location of the blast on the premises; (c) the blast monitoring results at each blast monitoring station; and (d) an explanation for any missing blast monitoring results.		Blast monitoring reports by Precision Drill and Blast are attached to EPA Annual Return.	Compliant
R4.3	The licensee must report any exceedance of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedance becomes known to the licensee or to one of the licensee's employees or agents.		No exceedances occurred during the reporting period	Not triggered
7	General Conditions			
G1	Copy of licence kept at the premises or plant			
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	<ul style="list-style-type: none"> Environment Protection Licence 3343 	A copy of EPL 3393 was sighted in the Administration Office at the Possum Brush Quarry premises.	Compliant
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	<ul style="list-style-type: none"> Environment Protection Licence 3343 	A copy of EPL 3393 is available the Administration Office at the Possum Brush Quarry premises	Noted
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	<ul style="list-style-type: none"> Environment Protection Licence 3343 	A copy of EPL 3393 is available the Administration Office at the Possum Brush Quarry premises	Noted

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EPL 3393	Condition			Verification	Comments	Compliance
G2	Other general conditions					
G2.1	Completed Programs					
	PRP	Description	Completed Date	<ul style="list-style-type: none"> • Noise Mitigation Investigations Report, Jul 2015 	The Noise Mitigation Investigations and Report was submitted to the EPA on 22 July 2015 and accepted by the EPA.	Compliant
	PRP 1 - Noise Mitigation Investigations and Report	Assess all reasonable and feasible noise mitigation measures to meet noise limit criteria at sensitive receptors	22 July 2015			